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DIVISION OF WATER RESOURCES

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**GROUND-WATER RESOURCES  
OF NORTHWESTERN INDIANA**

**Preliminary Report:                   Fulton County**



Prepared by the  
GEOLOGICAL SURVEY  
UNITED STATES DEPARTMENT OF THE INTERIOR  
In cooperation with the  
DIVISION OF WATER RESOURCES  
INDIANA DEPARTMENT OF CONSERVATION

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BY

J. S. ROSENSHEIN AND J. D. HUNN

GEOLOGISTS, U. S. GEOLOGICAL SURVEY

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## CONTENTS

	Page
Abstract-----	1
Introduction-----	2
Purpose and scope-----	2
Location and areal extent-----	2
Well-numbering system-----	4
Acknowledgments-----	5
Data collection and processing-----	5
General geology and sources of ground water-----	6
Confined and unconfined conditions-----	8
Types of wells-----	8
Summary-----	9
Records-----	9
Selected bibliography-----	11
Publications of cooperative ground-water program-----	81
Index-----	83

## ILLUSTRATIONS

(All plates in pocket)

	Page
Plate 1. Map of Fulton County, Ind., showing location of wells and test holes-----	
2. Map of Fulton County, showing availability of ground water-----	
3. Map of Fulton County, showing hardness of water in sand and gravel of Pleistocene age-----	
Figure 1. Map of Indiana, showing area covered by this report, areas under investigation, and areas covered by reports published under cooperative program-----	3
2. Sketch showing well-numbering system-----	4

## TABLES

	Page
Table 1. Significance of selected dissolved mineral constituents and properties of ground water-----	7
2. Grain size and equivalent screen openings-----	9
3. Records of wells and test holes in Fulton County, Ind.-----	12
4. Selected logs of wells and test holes in Fulton County-----	24
5. Field chemical analyses of water from wells in Fulton County-----	66
6. Water levels in observation wells in Fulton County-----	75

## GROUND-WATER RESOURCES OF NORTHWESTERN INDIANA

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By J. S. Rosenshein and J. D. Hunn

### ABSTRACT

Fulton County, in northwestern Indiana, has an area of about 370 square miles. Glaciofluvial sand and gravel of Pleistocene age is the chief source of ground water for domestic, stock, industrial, and public supplies. Wells that tap this source generally are less than 150 feet deep and yield from 5 to 1,000 gpm (gallons per minute). The underlying bedrock is not extensively used as a source of ground water. However, the bedrock of Devonian and Mississippian (?) age is a potential source of water, although quality and quantity available is uncertain. Field chemical analyses show that the hardness of water from the glaciofluvial sand and gravel generally is greater than 200 and less than 450 ppm (parts per million). Except locally the concentration of iron exceeds maximum concentration recommended in the U. S. Public Health Service drinking-water standard for iron and manganese together. However, in a small area in the north-central part, this standard is not exceeded.

This preliminary report contains tabulated records of about 470 wells and test holes giving information about well construction, water level, condition of occurrence, and characteristics of water-bearing material; selected logs for about 180 wells and test holes giving driller's description of material penetrated and authors' interpretation of their geologic age; results of 260 field chemical analyses giving hardness of water and the bicarbonate, chloride, iron, and sulfate contents; and water levels in 5 observation wells indicating the magnitude of short-term and long-term water level fluctuations of unconsolidated rocks. These basic data include much of the material to be used in an interpretive report on the ground-water resources and geology of the area.

A base map of Fulton County shows the location of each well or test hole listed in this report. Additional maps show the availability of ground water in the county and the areal distribution of hardness of water from the unconsolidated rocks of Pleistocene age.

## INTRODUCTION

### Purpose and Scope

An investigation of the ground-water resources and geology of 10 counties in northwestern Indiana has been in progress since June 1954. This investigation is being made by the U. S. Geological Survey in cooperation with the Division of Water Resources, Indiana Department of Conservation, as a part of a broad program of these agencies to inventory and evaluate the ground-water resources of Indiana.

This report is the sixth of a series of preliminary reports to be published on the ground-water resources and geology of northwestern Indiana. The purpose of the report is to make the basic data collected during the investigation available to the public and to provide a preliminary evaluation of the ground-water conditions and geology as an aid to development of ground-water resources. A more detailed and comprehensive analysis is in progress and will be published in an interpretive report on the ground-water resources and geology of the area.

The investigation was made under the immediate supervision of C. M. Roberts, district geologist for Indiana.

### Location and Areal Extent

Fulton County is in the northwestern part of Indiana (fig. 1). The county is nearly rectangular and includes about 370 square miles. It is bounded on the north by Marshall County, on the south by Cass and Miami Counties, on the west by Pulaski County, and on the east by Kosciusko, Miami and Wabash Counties.

Well-Numbering System

A numbering system is used to locate and identify the wells and test holes in this report. The number that is assigned each well or test hole indicates its location according to the official rectangular public-land survey. For example, in the number for well 30/4-36H1, the numbers preceding the hyphen indicate that the well is in T. 30 N., R. 4 E. The first number after the hyphen indicates the section in which the well is located. Each quarter-quarter section (40-acre tract) within a section is assigned a letter symbol as shown on figure 2. Within the quarter-quarter section the wells and test holes are numbered consecutively. Therefore, well 36H1 is the first well listed in SE $\frac{1}{4}$  NE $\frac{1}{4}$  sec. 36, T. 30 N., R. 4 E.

A narrow strip in the east-central part of the county is subdivided into land grants. In this area the grid of the rectangular public-land survey has been projected through the grants and wells in this area numbered in accordance with the system used in the rectangular survey area.

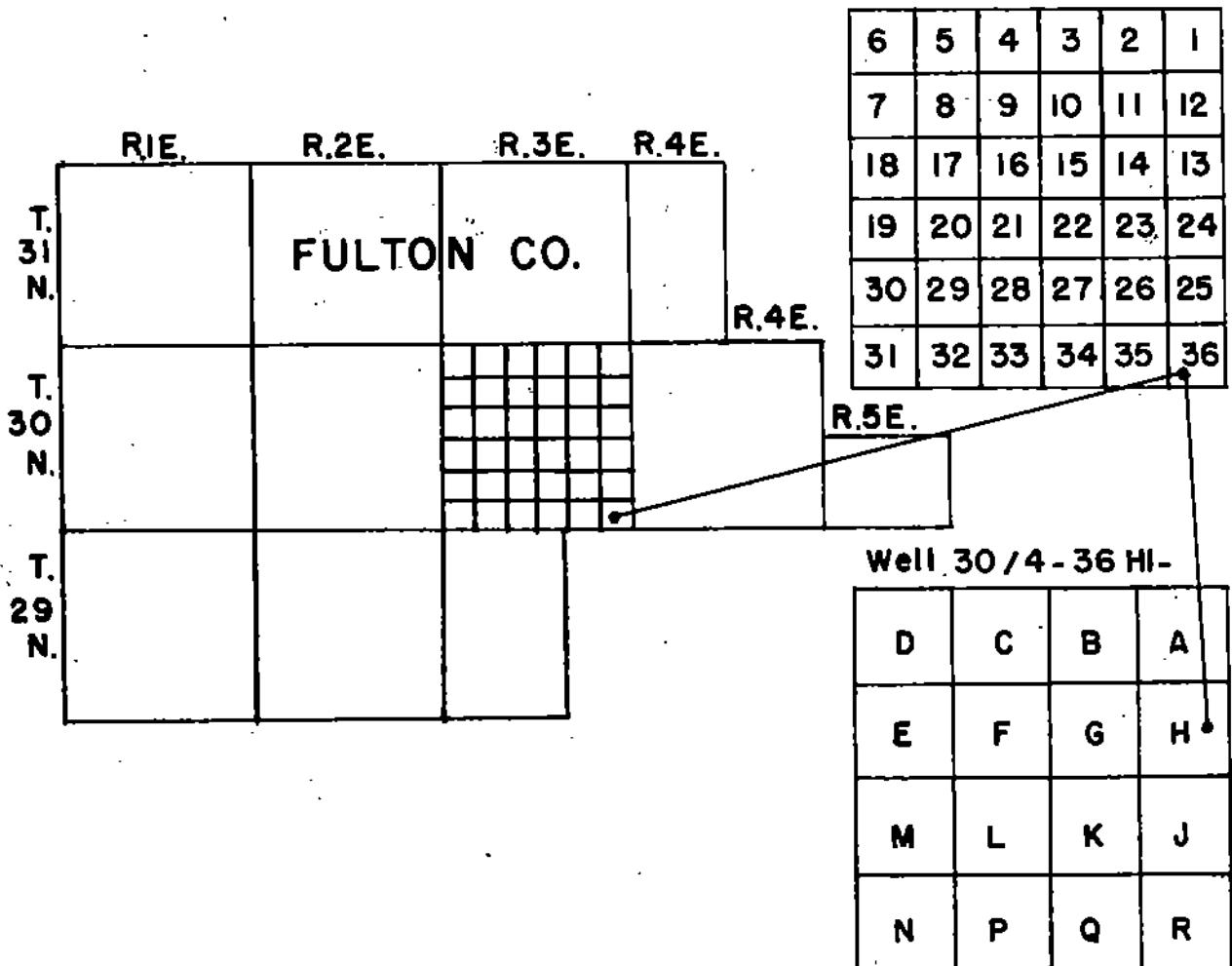
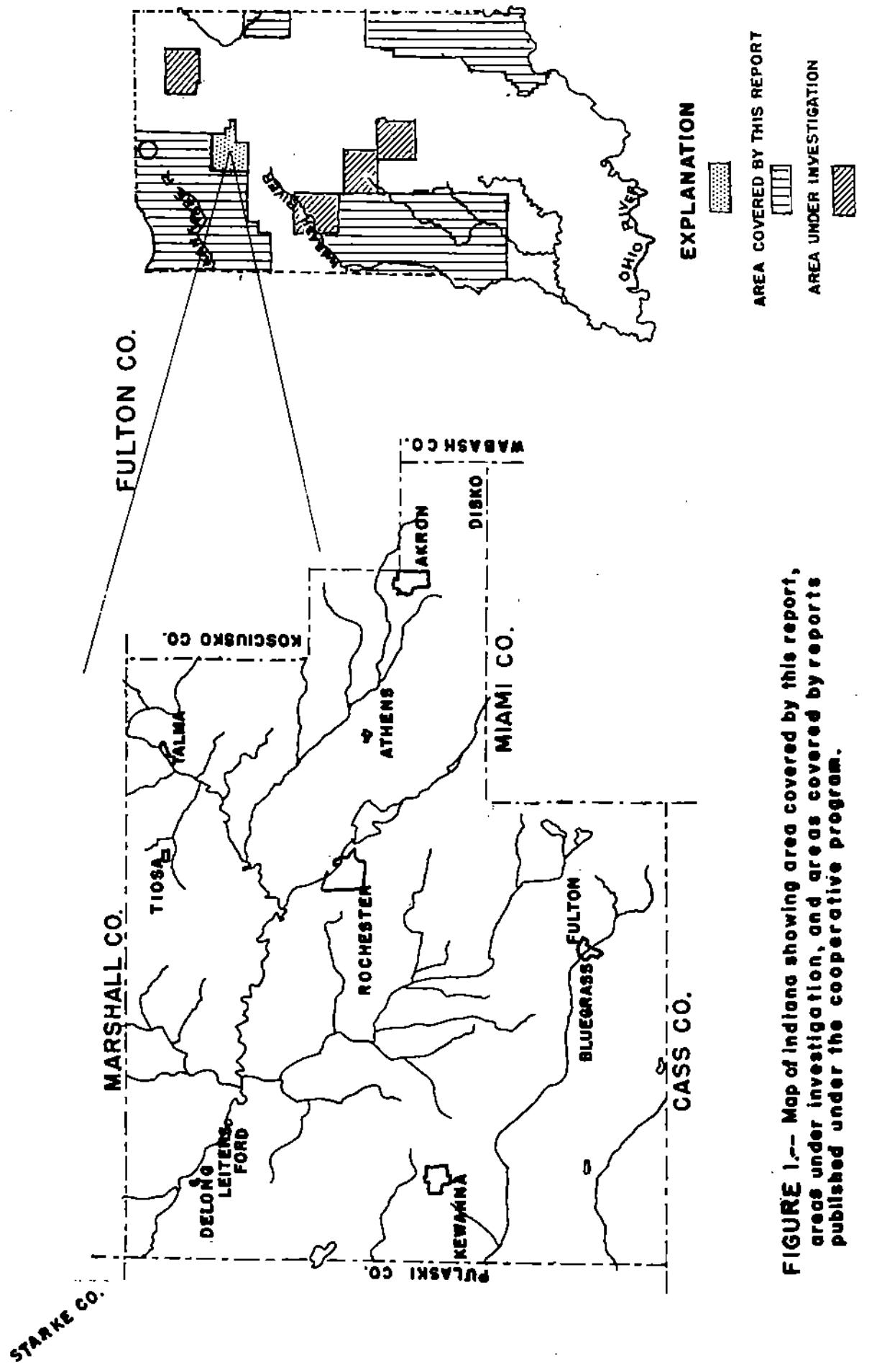


FIGURE 2.-- Sketch showing well-numbering system



**FIGURE 1.—** Map of Indiana showing area covered by this report, areas under investigation, and areas covered by reports published under the cooperative program.

AREA COVERED BY REPORTS PUBLISHED  
UNDER THE COOPERATIVE PROGRAM

AREA UNDER INVESTIGATION

AREA COVERED BY THIS REPORT

### Acknowledgments

The authors thank all persons who contributed time, information, and assistance during the collection, tabulation, and processing of data for this report. W. J. Steen of the Indiana Department of Conservation assisted in processing the data in the field. Well drillers, whose names are listed in the table of well records, furnished much of the information summarized in tables 3 and 4.

The authors also thank the following government agencies which provided information for the report: Divisions of Oil and Gas and Water Resources, Indiana Department of Conservation; Indiana State Highway Department; and Indiana State Board of Health.

### DATA COLLECTION AND PROCESSING

The well data were collected principally from drillers, water-works superintendents, and owners. The well records obtained from the drillers were of two types--written records and reports from memory. Tentative driller's locations were checked against the property records in the County Courthouse to verify the location, to locate the property, and to obtain the name of the current property owner. The locations of wells were checked further in the field if major discrepancies existed between the reported location and the property record in the plat books, if the location given could not be verified from county records, or if the verified location was not sufficiently accurate to be used.

Plate 1 shows the location of water wells and test holes and test holes drilled for purposes other than water supply. Most of these locations are shown to the nearest 10 acres. The basic data for these wells and test holes are summarized in table 3. In addition, selected driller's logs of wells and test holes are given in table 4.

Samples of water were collected at the time well sites were visited. These water samples were analyzed in the field office for hardness of water and alkalinity (expressed as bicarbonate) and chloride and sulfate contents by standard titration methods. The iron content of the water was determined at the well site immediately after the sample was collected. A visual method was used to determine the iron concentration in parts per million by matching the color of the treated sample to that of a liquid-color standard having a known iron concentration. The results of the field chemical analyses (table 5) were used to select sites for collecting larger water samples for more comprehensive chemical analyses by the laboratory of the U.S. Geological Survey.

Observation wells were established prior to and during the investigation in order to obtain relative changes in storage in the ground-water reservoir. Table 6 contains the water-level data collected from these wells. The observation wells were chosen so as to obtain water-level information from artesian and water-table aquifers consisting of unconsolidated rocks. Wherever possible, the wells were established at sites where the factors affecting the water levels in the aquifer were due chiefly to natural causes.

## GENERAL GEOLOGY AND SOURCES OF GROUND WATER

The oldest known consolidated rocks underlying Fulton County are of Ordovician age. These rocks consist of dolomite, dolomitic limestone, and shale and are overlain by dolomitic limestone, shale, and dolomite of Silurian age. The rocks of Ordovician and Silurian age are not used as a source of water supply in the county because these rocks generally lie more than 800 to 900 feet and 400 to 500 feet, respectively, below the surface, and the water they contain generally has a dissolved-solids content of more than 5,000 ppm (parts per million). However, in a small area in the southeastern part of the county the rocks of Silurian age lie directly below the glacial drift and may contain water that is moderately mineralized.

The rocks of Silurian age are overlain by dolomite and dolomitic limestone of Middle Devonian age. These rocks underlie blue-black bituminous shale of Devonian age (Logan, 1932) or Devonian and Mississippian age (Patton, 1956). Few water wells have been drilled into the rocks of Devonian and Devonian and Mississippian(?) age. Although these limestone and shales are not extensively used as a source of water in Fulton County, they are a potential source of water of which the quality and quantity available is uncertain.

The bedrock is overlain by unconsolidated glacial drift of Pleistocene age. The drift forms several prominent topographic features in the county (Leverett and Taylor, 1915, pl. 6; Wayne, 1958) such as the Maxinkuckee moraine in the north-central and western part; the Packerton moraine in the extreme southeastern part; the glaciofluvial plains in the northern part; and the ground moraine in the southern and extreme eastern part.

The unconsolidated rocks of Pleistocene age range in thickness from about 100 (Wayne, 1956, pl. 1) to more than 250 feet. The rocks consist chiefly of glaciofluvial sand and gravel, clayey and sandy till, and some glaciolacustrine clay and silt. The glaciofluvial sand and gravel is locally more than 150 feet thick and is the chief source of ground water for domestic and stock, industrial, and public supplies. Wells that tap this aquifer are generally less than 150 feet deep and yield from 5 to 1,000 gpm (gallons per minute).

The unconsolidated rocks of Pleistocene age are overlain locally by thin alluvium, wind-blown sand and organically rich sand, silt, and clay of Recent age. The deposits of Recent age are too thin to be a source of ground water.

Plate 2 shows the availability of ground water in the unconsolidated rocks underlying the county. Plate 3 shows the areal distribution of hardness of water from the sand and gravel of Pleistocene age. The water is hard to very hard. The hardness is generally greater than 200 and less than 450 ppm. The iron content generally exceeds maximum concentration recommended in the U. S. Public Health Service drinking-water standards for iron and manganese together except locally as in a small area in the north-central part of the county where this standard is not exceeded.

The range in concentration of selected constituents and properties is summarized in the table below. This table shows the minimum, mode, and maximum concentrations of various constituents and properties of water from sand and gravel of Pleistocene age.

Constituent or property	Minimum (ppm)	Mode (ppm)	Maximum (ppm)
Iron (Fe)-----	0.1	1.7	7.5
Bicarbonate ( $\text{HCO}_3$ )-----	151	426	532
Sulfate ( $\text{SO}_4$ )-----	5	46	175
Hardness as $\text{CaCO}_3$ -----	180	326	540

Table 1 indicates the significance of the various constituents and properties of the water that are listed in table 5.

Table 1.--Significance of selected dissolved mineral constituents  
a/  
and properties of ground water

Constituent or property	Significance
Iron (Fe)-----	Oxidizes to reddish-brown sediment upon exposure to air. More than about 0.3 ppm stains laundry and utensils reddish-brown. More than 0.5 to 1.0 ppm imparts objectionable taste to water. Larger quantities favor growth of iron bacteria. Objectionable for food processing, textile processing, beverages, ice manufacturing, brewing, and other purposes.
Bicarbonate ( $\text{HCO}_3$ )-----	Bicarbonate in conjunction with carbonate ( $\text{CO}_3$ ) produces alkalinity. Bicarbonate of calcium and magnesium decomposes in steam boilers and hot water facilities to form scale and release corrosive carbon-dioxide gas.
Sulfate ( $\text{SO}_4$ )-----	Sulfate in water containing calcium forms hard scale in steam boilers. In large amounts sulfate in combination with other ions gives bitter taste to water. Some calcium sulfate is considered beneficial in the brewing process.
Chloride (Cl)-----	Gives salty taste to drinking water when present in large amounts in combination with sodium. Increases the corrosiveness of water when present in large amounts.
Hardness as $\text{CaCO}_3$ (Calcium and magnesium)-----	Hard water increases amount of soap needed to make lather. Forms scale in boilers, water heaters, and pipes. Leaves curdy film on bathtubs and other fixtures and on materials washed in the water.

a/ Adapted in part from Palmquist and Hall (1961), p. 34-36.

## CONFINED AND UNCONFINED CONDITIONS

Ground water occurs in the consolidated and unconsolidated rocks of Fulton County under confined (artesian) conditions or under unconfined (water-table) conditions. Under confined conditions the aquifer (water-yielding material) is overlain directly by relatively impervious material, and the water will rise above the level at which it is encountered in the aquifer. Under unconfined conditions the aquifer is overlain directly by permeable unsaturated material, and the water will not rise above the level at which it is encountered.

## TYPES OF WELLS

Drilled, driven, and jetted wells are the principal types of water wells used in Fulton County. Most water wells 3-inches or more in diameter are generally constructed by the cable-tool, or percussion method, but some of these wells have been drilled by the rotary, reverse-rotary, and jetting methods. Where the water-bearing material is sand and gravel, the well is generally finished with a well screen set in the aquifer below the bottom of the well casing. (See Rosenshein and Cosner, 1956, p. 6, for a detailed description of a well screen.) A modification of this type of well, the gravel-packed well, has a gravel lining inserted between the well screen and the water-bearing material.

Water wells less than 3-inches in diameter are constructed in unconsolidated material by driving or jetting. The driven well consists of a small-diameter pipe having a drive point attached to the end, which is driven into shallow water-bearing material. The jetted well is constructed by forcing water under pressure out of a hollow-rod or small-diameter drill pipe that is fitted with a jetting bit. As the material is washed out of the hole ahead of the casing, the casing is driven down into the hole. After the water-bearing material is penetrated the well is generally finished with a well-point screen set in the water-bearing material below the bottom of the casing. Table 2 relates the grain-size in inches and millimeters to the slot and the gauze size of screens commonly used in water wells.

Oil or gas test holes in Fulton County generally were drilled by the cable-tool method. Structure test holes for foundations and bridges generally were drilled by the wash-boring method. Various methods were used in these types of test-hole drilling to recover samples of material penetrated, such as, driving a sampling tube into the material after specific intervals of boring or collecting samples from the bailer after specific intervals of cable-tool drilling.

Table 2.--Grain size and equivalent screen openings

Grain size: After Wentworth (1922). Slot size: In thousandths (0.001) of  
 Equivalent screen openings: From an inch.  
 commercial catalogs for water- Gauze size: Number of wire strands  
 well supplies. per lineal inch.

Material	Grain size		Equivalent screen opening	
	Inches	Millimeters	Slot size	Gauze size
Gravel-----	> 0.08	> 2	> 80	-----
Very coarse sand-	.04 - .08	1 - 2	40 - 80	< 20
Coarse sand-----	.02 - .04	.50 - 1	20 - 40	40 - 20
Medium sand-----	.01 - .02	.25 - .50	10 - 20	60 - 40
Fine sand-----	.005 - .01	.125 - .25	6 - 10	90 - 60
Very fine sand---	.002 - .005	.062 - .125	-----	-----
Silt-----	.00015 - .002	.004 - .062	-----	-----
Clay-----	< .00015	<.004	-----	-----

#### SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are available for domestic, stock, public, and industrial supplies from sand and gravel of Pleistocene age. The underlying bedrock is not extensively used as a source of water. However, the rocks of Devonian and Devonian and Mississippian(?) age are a potential source of water, although quality and quantity available is uncertain.

The chemical quality of water from the rocks of Pleistocene age varies. The water is generally hard to very hard. The iron content exceeds the U. S. Public Health Service drinking-water standards for iron and manganese together in much of the county except locally as in a small area in the extreme north-central part where this standard is not exceeded.

#### RECORDS

The records of about 470 wells and test holes are given in table 3. The table contains information about well construction, water levels, yields and drawdowns, conditions of occurrence, thickness and characteristics of water-bearing materials, type of pump, and other data. The altitude of the land surface at all wells and test holes was interpolated from topographic maps. Altitudes of boring were leveled by the State agency for whom the borings were made.

Table 4 contains the selected logs of about 180 wells and test holes. This table gives the driller's description of the material encountered, pertinent remarks with regard to the material, and authors' interpretation of the geologic age of the material.

The results of 260 partial chemical analyses of water are given in table 5. The analyses were determined in the field office of the Geological Survey. This table gives information about geologic source, temperature, concentration in parts per million of iron, bicarbonate, sulfate, chloride,

and hardness (calcium, magnesium) of water. The U. S. Public Health Service standards for drinking water are given in the table headnotes for iron and manganese together, sulfate and chloride. No official standards have been established for hardness of water. However, water with respect to hardness is generally classified (Lamar, 1942, p. 25-26) as follows: 0-60 ppm soft; 61-120 ppm moderately hard; 121-200 ppm hard; more than 200 ppm very hard.

Table 6 contains the records of five observation wells of which two were established during the investigation and three prior to the investigation. The water levels in the observation wells were measured either by recording gages installed on the well or by manual measurements made with an engineer's steel tape graduated to a hundredth of a foot. The water levels are in feet below land-surface datum. Daily water levels are given for the observation well equipped with a recording gage, and periodic water levels are given for the observation wells measured manually. For additional water levels see water-supply papers listed under U. S. Geological Survey in selected bibliography. Factors affecting the water levels in the observation wells are also indicated. The location of observation wells is shown on plate 1.

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Table J--Records of wells and test holes in Fulton County, Indiana

Well: See text for description of well-numbering system.

Altitude: Altitude of land-surface datum from topographic map except as noted in text P, B.

Type of well: B, bored; D, driven; Dr, drilled; J, jetted.

Finish: Gp, gravel pack; Oo, open hole; S, screen; dia, diameter in inches; G, Gravel; Sq, sand; L, limestone.

Character: G, gravel; Sq, sand; L, limestone.

Geologic age: D, Devonian; Pl, Pleistocene; Pl, pluvial; U, unconfined; see text for definition.

Condition of occurrence: C, confined; U, unconfined; see text for definition.

Water level: In feet below land-surface datum on date of completion of well, except where otherwise noted.

Use: Ac, air conditioning; D, domestic; Do, destroyed; I, Industrial; Jr, irrigation; N, not used; O, observation; P, public supply; S, stock; T, test.

Ration: N, not used; O, observation; P, public supply; S, stock; T, test.

Type of pump and horsepower: C, centrifugal; J, jet; L, lift; P, piston; T, turbine; Turbopower: numerical indicates rated horsepower of electric motor.

Remarks: Ca, field chemical analysis in table 5; dd, dredged; fm, fallings per minute; L, log of well in table 4; S, samples available for inspection.

Well	Owner	Driller	Date completed.	Altitude (feet)	Type of well	Depth of surface of well below land-surface datum of well (feet)	Diameter of well (inches)	Water-bearing zone	Geologic age		Depth to top (feet)	Bottom elevation of bedrock and base of glacial drift (feet)	Type of pump and horse-power and use	Remarks	
									Thickness (feet)	Character					
29/1-1P1	R. Schmid	Rochester Well and Pump Co.	10-26-56	781	J	52	2	S, 3 ft	---	G	Pl	C	12	D	P
3D1	A. Welsh	Fisher Bros. Well Drilling Co.	4-13-51	761	J	92	2	S; 2 ft, 30sl	79	G	Pl	---	15	D	---
SE1	T. H. White	Fisher Bros. Well Drilling Co.	7-16-58	761	J	86	44	S; 5 ft, 14sl, dia 3	8	G	Pl	C	19	D, S	---
11C1	T. Welsh	McGraw Well Drilling Co.	7-30-59	762	J	90	43	S; 4 ft, 14sl, dia 3	80	10	G, Sq	Pl	22	D, S	---
11C2	do	do	8-15-59	762	J	80	43	S; 8 ft, 14sl, dia 3	25	55	G, Sq	Pl	18	D, S	---
-	M. Mako	McGraw Well Drilling Co.	11-6-55	775	J	65	2	S; 2 ft, 10sl	77	8	G, Sq	Pl	19	D, S	J
12	Trustees, Wayne Township, Ross	D. Henderson	9-23-58	762	Dr.	115	4	S; 10 ft, 25sl	105	10	G	Pl	C	18	P
23P1	L. Gault	Rochester Well and Pump Co.	do	785	J	103	2	S; 3 ft, 50g, dia 14	100	3	Sq	Pl	C	35	S
32A1	E. R. Malono	McGraw Well Drilling Co.	1958	758	J	50	2	S	46	4	G	Pl	C	18	---
29/2-1R1	H. Morris	J. Henderson	7-9-59	768	J	94	2	S; 3 ft, 60g, dia 14	67	29	G, Sq	Pl	C	15	D, S
4D1	Z. Crook	McGraw Well Drilling Co.	1957	763	J	83	2	S; 3 ft, 10sl, dia 14	79	4	G	Pl	C	15	C
4P1	N. Yerborg	Fisher Bros. Well Drilling Co.	9-26-59	768	J	77	2	S; 3 ft, 60g, dia 14	74	3	G	Pl	C	19	---
BPI	H. E. Nichols	McGraw Well Drilling Co.	7-16-59	775	J	59	2	S; 2 ft, 10sl, dia	65	8	G	Pl	C	11	D, S
12A1	E. Trambarger	Rochester Well and Pump Co.	3-16-55	800	J	74	2	S; 3 ft, 50g, dia 1	53	21	Sq, G	Pl	C	20	S
11C1	L. Ranch	McGraw Well Drilling Co.	1957	802	J	74	2	S	66	8	G, Sq	Pl	C	23	D
14C1	C. Rontschler	do	1956	793	J	69	2	S	66	3	G	Pl	C	22	S
14F1	do	do	5-21-55	782	J	83	2	S; 2 ft, 10sl	58	5	G	Pl	C	18	S
22D1	C. Fred	do	1957	792	J	29	2	S	20	8	G, Sq	Pl	---	20	S
23G1	P. B. Stewart and Co.	do	7-29-60	780	J	85	2	S; 4 ft, 10sl, dia 14	---	6	G, Sq	Pl	C	12	P, S, J
23G2	I. Deppitt	J. Henderson	7-18-59	782	J	20	---	S; 2 ft, 60g, dia 14	48	4	G	Pl	C	12	D
23J1	M. Walz	McGraw Well Drilling Co.	12-10-55	789	J	52	2	S; 2 ft, 10sl	48	4	G	Pl	C	8	J
23J2	P. Eastorday	do	1956	789	J	53	2	S; 2 ft, 10sl, dia	40	4	G	Pl	C	12	D
23J3	M. Burns	do	12-22-59	762	J	59	2	S; 2 ft, 10sl, dia	48	12	Sq, G	Pl	C	13	---
23J4	V. Rouch	J. Henderson	8-20-59	792	J	60	2	S; 3 ft, 60g, dia 14	48	12	Sq, G	Pl	C	18	D

29/2-24D1	P. Zartman	McGraw Well Drilling Co.	1955	790	J	34	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub>	32	2	G	P1	C	---	D	L1/4
24E1	H. E. Mullens O. Baker	J. Henderson McGraw Well Drilling Co.	7-18-59	798	J	65	2	S; 3 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	60	5	G, Sd	P1	C	19	D	J1/4
24H1	V. Stingley	J. Henderson Rochester Well and Pump Co.	9-30-59	892	J	40	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	36	4	Sd	P1	C	12	S	P
30C1	L. Rouch	J. Henderson Rochester Well and Pump Co.	8-16-50	762	J	43	2	S; 3 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	---	0	P1	C	14	S	L	
32H1	C. Malon L. Siders	J. Henderson McGraw Well Drilling Co.	2-2-60	785	J	78	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	71	7	C	P1	C	21	D	---
32P1	E. Richter	do	10-2-57	802	J	803	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	35	27	Sd, G	P1	C	24	D	---
35H2	do	do	1957	803	J	49	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	54	4	G, Sd	P1	C	35	D	---
29/3- 3B1	W. Gottschalk F. Gottschalk	Rochester Well and Pump Co.	7-29-51	822	J	78	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	72	6	Sd	P1	C	20	D	---
3L1	F. Ross	McGraw Well Drilling Co.	7-25-59	821	J	52	2	S; 3 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	42	10	G	P1	C	20	S	---
4P1	W. Gottschalk	do	9-19-55	812	J	42	2	S; 3 <sup>1</sup> / <sub>2</sub> ft., dia 1 <sup>1</sup> / <sub>2</sub>	---	0	P1	C	21	D	---	
7P1	C. Jewell	do	10-27-59	800	J	57	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	52	5	G	P1	C	17	D	---
10H1	G. Baker	do	1956	832	J	106	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., dia 1 <sup>1</sup> / <sub>2</sub>	102	4	G	P1	C	45	D	---
10N1	C. W. Pearson P. Whitezel	Rochester Well and Pump Co.	7-18-80	800	J	86	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 12 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	82	4	G, Sd	P1	C	30	S	---
15D1	H. E. Spohn	do	3-16-57	800	J	181	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 50 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	---	0	P1	C	30	S	---	
15E1	J. Vandiven H. A. Roehler	do	6-15-58	810	J	47	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 50 <sup>1</sup> / <sub>2</sub>	---	0	P1	C	29	S	J1/2	
15E2	L. Ziemann H. E. Spohn	do	6-13-56	810	J	131	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., dia 1 <sup>1</sup> / <sub>2</sub>	---	0	P1	C	19	S	---	
15E3	do	do	1956	800	J	75	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., dia 1 <sup>1</sup> / <sub>2</sub>	71	4	G	P1	C	45	D	---
15E5	Mr. Gerrard	Rochester Well and Pump Co.	6-13-50	810	J	131	2	do	125	6	G, Sd	P1	C	4	D	---
15J1	C. R. Duran N. H. Strausse	do	5-15-50	823	J	55	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	29	12	Sd, G	P1	C	28	D	---
15H1	N. Burris B. Shaffer	do	8-24-59	813	J	41	2	S; 3 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub>	22	0	G, Sd	P1	C	7	D	---
16H2	Mr. Robbins G. King	J. Henderson McGraw Well Drilling Co.	9-10-59	805	J	32	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2, dia 1<sup>1</sup>/<sub>2</sub></sub>	29	6	G, Sd	P1	C	12	D	---
16H3	do	7-21-59	803	J	23	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	21	3	G, Sd	P1	C	14	D	---	
16H4	do	7-16-60	805	J	76	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	73	3	G, Sd	P1	C	15	D	---	
16J1	Mr. Eshhardt	Rochester Well and Pump Co.	7- 1-52	800	Dr	46	4	S; 2 <sup>1</sup> / <sub>2</sub> ft., 25 <sup>1</sup> / <sub>2</sub>	---	0	P1	C	20	D	L	
16R1	do	do	3-2-56	800	J	46	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	78	13	G, Sd	P1	C	2	D	P
16R2	do	do	9-22-57	800	J	91	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 50 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	78	13	Sd, G	P1	C	3	D	P
21L1	E. and C. Ronitschior	do	1956	810	J	110	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	---	0	Sd, G	P1	C	39	S	L
22D1	E. Kuech	Rochester Well and Pump Co.	6- 7-54	788	J	57	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 80 <sup>1</sup> / <sub>2</sub>	---	0	Sd, G	P1	C	5	D	J1/4
22D2	J. A. Wallingor R. Miller	do	4-23-55	798	J	49	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	66	6	P1	C	12	D	---	
22E2	P. and F. Horr	do	4-18-57	810	J	39	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	66	25	Sd, G	P1	C	36	D	---
22E3	Mr. Davis	do	5-7-57	805	J	113	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 50 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	66	25	Sd, G	P1	C	3	D	---
27R1	E. Hasselor	C. W. Kendall	7-12-49	812	Dr	1,322	8-	do	---	0	P1	C	34	D	---	
28F1	Q. Martzlor	Rochester Well and Plug Co.	2- 4-54	815	J	57	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 10 <sup>1</sup> / <sub>2</sub>	54	3	G	P1	C	20	D	J1/3
30/1- 1C1	C. L. Goyer	Flaser Bros. Well Drilling Co.	B-24-60	760	J	80	24	S; 2 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	44	36	G, Sd	P1	C	15	D	---
2L1	F. C. Rudkins	Rochester Well and Pump Co.	10-10-55	772	J	111	2	S; 3 <sup>1</sup> / <sub>2</sub> ft., 50 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	70	14	Sd, G	P1	C	28	D	J1/3
5A1	C. Somers	do	7-10-59	785	J	84	24	S; 2 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub> , dia 1 <sup>1</sup> / <sub>2</sub>	56	13	Sd, G	P1	C	34	D	---
6G1	H. E. Moore	do	2-24-56	727	J	69	2	S; 2 <sup>1</sup> / <sub>2</sub> ft., 60 <sup>1</sup> / <sub>2</sub>	56	13	Sd, G	P1	C	3	D	---
6G2	Mr. Sholby	E. Brockor, Jr.	do	728	J	2	do	---	0	P1	C	3	D	---	D	---
6G3	R. Lovu	E. Brockor	About 1925	731	J	84	2	do	---	0	Sd, G	P1	C	3	D	---
6H1	Mr. Newton	do	do	728	J	2	do	---	0	P1	C	3	D	---	D	---

Table 3.—Records of wells and test holes in Fulton County, Indiana—Continued

Well	Owner	Driller	Water-bearing zone				Type of pump and horsepower used	Remarks		
			Fossil		Thickness (feet)	Depth to top (feet)				
			Character	Geologic age						
39/1-682	S. Pittengor	Fisher Bros. Well Drilling Co.	8-16-80 4-22-80	724 J 55 2½	30	32 G, Sd	P1 C	D		
61E K. Appliance	J. Masters	E. Brooker, Jr.	7-2-59	733 J Spring 1854	64 2 62 2	5; 3½ ft., 10½ dia 3½ ft., 60½ dia	G, Sd G	P1 C P1 C		
61J R. Jones	H. C. Burton	Fisher Bros. Well Drilling Co.	7-31-59	730 J	65 2½	5; 3½ ft., 60½ dia	G, Sd, G	D		
61L P. Jahnko	G. Mitchell	—	—	730 J	66 2½	5; 3½ ft., P, dia 24	6 Sh.G	P1 C		
61L P. Jahnko	G. Mitchell	—	—	730 J	65 2½	5; 3½ ft., 60½ dia	6 Sh.G	P1 C		
6P1 Mr. Salabro	Clark's Park	Rochester Well and Pump Co.	4-12-60	730 J	62 2	5; 3½ ft., 50½ dia	9 Sd, G	P1 C		
6P2 W. Collier	P. Sulok	Fisher Bros. Well Drilling Co.	7-12-60	728 J	72 2	5; 3½ ft., 25½ dia	9 Sd, G	P1 C		
9P1 J. M. Holt	R. Lobeke	—	—	756 J	88 2	5; 3½ ft., 60½ dia	8½ Sd, G	P1 C		
14P1 A. L. Cox and Son	Wauasac Coal Spring Corp.	—	—	776 J	80 4½	5; 5½ ft., 20½ dia	9 Sd, G	P1 C		
27D1	Town of Keweenaw	Layne-Northern Co., Inc.	7-6-51	775 Dr	133 12	5; 10½ ft.	119 14 G, Sd	P1 C		
34Q1 L. Maddox	E. Rochester Well and Pump Co.	4-6-51	762 J	97 2	5; 2½ ft., 30½ dia	—	P1 C	24 P		
39/2-151	C. McNeahan	J. Henderson Rochester Well and Pump Co.	7-14-59	763 J	38 2	5; 3½ ft., 60½ dia	14 Sd	P1 C		
39/2-151	W. Kanawha	—	9-21-53	782 J	95 2	5; 3½ ft., 10½ dia	13 Sd	P1 C		
4K1 L. Conover	H. J. Darrell	—	10-8-59	757 J	56 2	5; 3½ ft., 50½ dia	14 Sd	P1 C		
4N1 R. Wilson	P. S. Rumsey	—	10-26-55	780 J	82 2	5; 3½ ft., 50½ dia	14 Sd	P1 C		
8A2 W. N. Friedrich	G. Moody	—	7-17-56	752 J	53 2	5; 3½ ft., 25½ dia	14 Sd	P1 C		
12G1 J. O. Morris	R. Brooker, Jr.	—	11-16-52	750 J	80 2	5; 3½ ft., 25½ dia	14 Sd	P1 C		
17C1	J. McElroy	—	10-18-55	770 J	74 2	5; 3½ ft., 25½ dia	14 Sd	P1 C		
18H1	J. McElroy	Fisher Bros. Well Drilling Co.	8-15-55	770 J	38 2	5; 2½ ft., 50½ dia	14 Sd	P1 C		
19R1 H. Johnston	Nicholson Well and Pump Co.	1-21-54	767 J	58 2	5; 3½ ft., dia 14	—	G	P1 C		
20G1 G. Wilson	—	5-26-56	755 J	50 2	5; 3½ ft., 50½ dia	14 Sd, G	P1 U	10 D		
23G1 R. Wagner	Fisher Bros. Well Drilling Co.	5-12-52	793 J	50 2	5; 3½ ft., 50½ dia	14 Sd, G	P1 C	4 D		
24R1 C. Hoff	—	8-26-59	777 J	43 2½	5; 3½ ft., 60½ dia	14 Sd, G	P1 C	14 D		
25H1 G. Carlson	Mechanics Well and Pump Co.	4-25-56	781 J	38 2	5; 3½ ft., 50½ dia	14 Sd, G	P1 C	5 D		

10/2-301	T. M. Lamb	Fisher Bros. Well Drilling Co.	9-28-59	762 J	48	24 S; 3ft, 60g, dia 14	---	PI C	16 D, 9	Yield 14 Rpm; L.
3401	W. H. Boona	McGraw Well Drilling Co.	7- 9-59	767 J	63	2 S; 2 <sup>1</sup> / <sub>2</sub> ft, 10sl, dia 14	---	PI C	8 D, 5	Yield 10 Rpm; Ca, L.
3501	P. Stahler	Rochester Well and Pump Co.	4- 3-59	775 J	55	2 S; 3ft, 10sl	---	PI	10 D, 8	Yield 13 Rpm; sand from 36-55 ft; record missing from 0-36 ft; Ca.
30/3- 101	D. X. Stimson	-----do-----	7-22-55	803 Dr	77	4 S; 3ft, 20sl	---	PI	10 D, 8	Yield 60 Rpm; for bulk milk plant; Ca.
102	G. W. Xross	Fisher Bros. Well Drilling Co.	4-22-49	808 J	81	2 S; 3ft, 10sl	56	PI	23 D, 5	Yield 14 Rpm; gravel overlain by 56 ft blue clay; Ca.
201	P. McCunk	-----do-----	11- 7-59	802 J	80	2 S; 3ft, 60g, dia 14	4	PI	30 D, 5	Yield 13 Rpm; Ca, L.
301	E. Peterson	Rochester Well and Pump Co.	7-29-57	782 Dr	87	4 S; 4ft, 30sl	---	PI	20 ---	PI
403	E. Thor-Kennan	-----do-----	3-24-50	782 J	60	2 S; 3ft, 60g, dia 14	---	PI	5 ---	PI
402	R. Clinton	-----do-----	1-53	782 J	58	2 S; 3ft, 60g, dia 14	---	PI	5 ---	PI
401	Shivahan Pipe Line Co.	-----do-----	9- 2-49	783 J	59	2 S; 3ft, 60g, dia 14	---	PI	12 B	Ca.
401	R. Gaywood	-----do-----	10-17-59	782 J	42	2 S; 3ft, 60g, dia 14	---	PI	12 D	Yield 15 Rpm; Yield 20 Rpm.
501	W. Scott	City of Rochester	3-29-55	783 J	61	4 S; 3ft, 30sl	34	PI	12 D	Yield 13 Rpm; Ca, L.
501	E. Jones	Forrest Farm Products	2-24-54	773 J	70	2 S; 3ft	8	PI	5 ---	Yield 16 Rpm; Ca.
501	Rochester Ice and Coal Co.	Rochester Well and Pump Co.	11-15-49	774 J	98	4 S; 6ft, 30sl	---	PI	16 ---	Yield 18 Rpm; Ca, L.
502	Rochester Foundry	-----do-----	8-27-55	774 J	51	2 S; 4ft, 20sl	---	PI	18 D	Yield 16 Rpm; Ca, L.
502	Arbour Creameries	Strommel and Hill	4-11-57	777 J	62	4 S; 4ft, 20sl	---	PI	12 D	J1/2
503	-----do-----	5- 8-44	778 Dr	62	10 B; 10ft	---	PI	12 D	Plowed 33 Rpm; Ca, L.	
503	-----do-----	11- 8-45	778 Dr	77	10 S; 20ft	---	PI	8 D	Ac	
601	T. J. Gauhar	Rochester Well and Pump Co.	1-19-54	765 J	56	2 S; 3ft, dia 14	---	PI	8 D	Observation well Fulton 5; water level measured 12.71 ft below 100 ft.
601	J. R. Howell	-----do-----	8-28-53	775 J	56	2 S; 3ft	---	PI	8 D	100 ft hollow.
701	J. Inman	-----do-----	2-12-53	779 J	47	2 S; 2 <sup>1</sup> / <sub>2</sub> ft, 25sl	51	PI	7 ---	Return well.
701	Mr. Snydar	McGraw Well Drilling Co.	1958	771 J	55	2 S; 3ft, dia 14	4	PI	8 J	Dr 20 ft after 5 hr pumping 400 Rpm; screen, upper 2 ft 35 sl, 4 ft 35 sl, lower 2 ft 20 sl; sand log well 5R3.
703	W. Dowse	Rochester Well and Pump Co.	4-12-57	778 J	54	2 S; 3ft, dia 14	---	PI	8 J	Yield 450 Rpm; screen, upper 8 ft 50 sl, 2 ft 35 sl, lower 10 ft 20 sl; L.
703	D. Farning	McGraw Well Drilling Co.	1- 2-60	777 J	52	2 S; 3ft, 10sl	34	PI	11 D	Ca.
703	D. Seelby	Rochester Well and Pump Co.	4-21-56	777 J	51	2 S; 3ft, 12sl	---	PI	11 D	Sand and gravel overlain by yellow and blue clay.
701	J. Bick	-----do-----	6-23-50	787 J	60	2 S; 3ft, dia 14	---	PI	10 D	Blue fine gravel overlain by 51 ft blue clay.
701	D. D. Lavengood	-----do-----	4-12-58	787 J	61	2 S; 3ft, 20sl	---	PI	10 D	Yield 25 Rpm; Ca.
701	T. Enyart	-----do-----	4- 6-54	787 J	58	2 S; 3ft, 10sl	---	PI	10 D	Yield 10 Rpm; Ca, L.
702	H. R. and E. L. Alspach	-----do-----	9- 3-58	792 J	64	2 S; 3ft, 10sl	---	PI	10 D	Yield 15 Rpm; Ca.
702	H. Donton	-----do-----	5- 2-58	783 J	43	2 S; 3ft, 10sl	---	PI	10 D	Yield 15 Rpm; Ca.
801	H. City Rochester	-----do-----	5- 4-57	790 J	61	2 S; 3ft, 60g, dia 14	---	PI	13 D	Observation well Fulton 2; water level measured 11.57 ft below 100 ft.
802	Layne-Northern Co., Inc.	-----do-----	1-12-34	774 Dr	96	50- GP, S; 25 ft, dia 14	42	PI	12 D	1-15-36 ft.
803	Harron-Nunn Co.	-----do-----	1-17-28	774 Dr	100	50- S; 25ft, dia 26	---	PI	6 D	15 ft at pumping 1,000 Rpm; Ca, L.
801	-----do-----	-----do-----	-----	780 Dr	25	14 -	---	PI	6 D	25 ft pumping 800 Rpm; sand log soil 8A2.
801	D. Becker	Rochester Well and Pump Co.	9- 1-52	778 J	55	2 S; 3ft, dia 14	---	PI	6 D	Observation well Fulton 1; water level measured 17.16 ft below 100 ft.
802	L. Baker	-----do-----	6-23-56	770 J	57	2 S; 2ft, 20sl	36	PI	6 D	35 ft after 3 hr pumping 60 Rpm; L.
802	L. Bick	-----do-----	11-21-54	780 J	49	1 S; 2ft, 30sl	13	PI	6 D	Yield 12 Rpm.
802	A. Goodrich	-----do-----	2-20-52	782 J	61	2 S; 3ft, 50g, dia 14	---	PI	15 P	Yield 12 Rpm.
802	B. Schromo	-----do-----	5-16-56	782 J	63	2 S; 2 <sup>1</sup> / <sub>2</sub> ft, 50g, dia 14	---	PI	18 D	Yield 12 Rpm.
801	W. M. Swango	-----do-----	3-27-56	783 J	40	2 S; 3ft, dia 14	30	PI	12 D	Yield 12 Rpm.

Table 3.—Records of wells and test holes in Fulton County, Indiana—Continued.

Well	Owner	Driller	Type completed	Elevation (feet)	Depth to top (feet)	Thickness (feet)	Geologic age	Diameter of well (inches)	Depth of well backface (feet)	Type of well backface (feet)	Water-bearing zone	Type of pump and borepower						Remarks	
												Depth to bottom (feet)	Diameter of well (inches)	Geologic age	Diameter of well (inches)	Depth to top (feet)	Elevation (feet)	Water level (feet)	Depth to bottom (feet)
30/3-612	X. MacFarland	Rochester Well and Pump Co.	8-10-59	783	J	43	2	3 ft., 50g, dia 1½	33	10	G, Sd	P1	C	14	D	P	Yield 16 gpm; Ca, L.		
8H1	A. K. Smith	do	8-3-52	785	J	55	2	3 ft., 16g, dia 1½	... 3 ft., 9g, dia 1½	... 2	G	P1	... P1	14	D	J1/2	Yield 13 gpm; Ca.		
8P1	Borhoff Cafe	do	5-25-50	787	J	61	2	3 ft., 9g, dia 1½	... 3 ft., 6g, dia 1½	... 2	G	P1	... P1	13	D	... P	Yield 14 gpm; Ca.		
8R1	R. Flynn	do	3-1-57	793	J	40	2	3 ft., 6g, dia 1½	... 2	1	G	P1	... P1	16	D	... O	Yield 12 gpm; Ca.		
8X1	City of Rochester	do	-	777	Do	28	1	-	-	-	Gd, G	P1	U	-	O	-	Observation well; Fulton J. water level measured 10.74 ft below land; 10-17-35.		
8X2	U. S. Government	Rochester Well and Pump Co.	6-16-53	778	Br	68	4	3 ft., 25g	8	58	Sd, G	P1	U	8	-	T3	Yield 60 gpm; for fish hatchery; sand and gravel from 0-86 ft.		
8X3	Bessler Drug Store	do	5-5-54	778	J	92	2	3 ft., 3 ft.	8	54	Sd, G	P1	U	8	AC	-	Yield 12 gpm; sand and gravel from 0-52 ft.		
9H1	M. Peace	do	6-21-51	784	J	58	2	3 ft., 30g	... 2	... G	P1	... P1	14	D	... D	Yield 5 gpm.			
9J1	Schoor Root Beer Stand	do	5-3-54	783	J	42	2	3 ft., 3 ft.	... 2	... G	P1	... P1	14	D	... D	Yield 12 gpm.			
9J2	D. Kondrich	McGraw Well Drilling Co.	9-21-58	787	J	43	2	2 ft., 60g	12	31	Sd, G	P1	U	12	D	J	Yield 12 gpm; sand and gravel from 0-39 ft.		
9J3	Mr. Boudichburg	do	1957	785	Do	39	14	3 ft., 10g, dia	6	33	G, Sd	P1	U	6	-	-	Yield 15 gpm.		
9J4	D. Harvey	Rochester Well and Pump Co.	7-11-57	784	J	42	2	3 ft., 30g, dia 1½	... 2	... G	P1	... P1	14	D	... D	J	Yield 15 gpm.		
9K1	A. Sherbody	do	5-18-52	782	J	64	2	3 ft., dia 1½	... 2	... G	P1	... P1	14	D	... D	C	Yield 17 gpm; L.		
9K2	O. Rockwell	do	6-12-52	782	J	60	2	3 ft., dia 1½	... 2	... G	P1	... P1	10	D	... D	L	Yield 15 gpm; re-sealed; gravel overlain by 53 ft. sand and gravel.		
9K3	W. E. Howe	do	6-23-56	785	J	67	2	3 ft., 60g, dia 1½	10	57	Sd, G	P1	U	10	D	D	Yield 14 gpm; L.		
9K4	W. F. Sindlinger	do	8-4-58	782	J	56	2	3 ft., 60g, dia 1½	6	50	Sd, G	P1	U	6	D	D	Yield 14 gpm; L.		
- 16 -																			
9K5	J. Barnett	do	7-30-56	786	J	67	2	3 ft., dia 1½	9	58	Sd, G	P1	U	9	De	5	Yield 14 gpm; L.		
9K6	W. Billman	do	10-2-57	782	J	61	2	3 ft., 50g, dia 1½	7	54	Sd, G	P1	U	7	D	L	Yield 30 gpm; stand and gravel from 0-61 ft.		
9Q1	Mr. Amort	do	8-16-54	782	J	61	2	3 ft., 12g	... 2	... G	P1	... P1	10	D	... D	D	... Sand and gravel from 0-61 ft.:		
9Q2	L. Hilleberg	do	12-13-54	782	J	61	2	3 ft., 30g	4	57	Sd, G	P1	U	4	D	D	Ca.		
9Q3	H. Jilbert	do	12-4-58	783	J	61	2	3 ft., dia 1	12	49	Sd, G	P1	U	12	D	D	Yield 15 gpm; L.		
9R1	Dr. Mitchell	do	6-23-56	785	J	80	2	3 ft., 12g	10	80	Sd, G	P1	U	10	D	D	Yield 12 gpm; sand and gravel from 0-90 ft.		
9R2	H. O. Cooper	do	5-10-57	780	J	60	2	3 ft., 50g, dia 1½	... 2	... G	P1	... P1	12	D	... D	D	Yield 50 gpm; Ca.		
10S1	Airport Grocery	do	4-28-54	789	J	42	2	3 ft., 25g	12	27	Sd, G	P1	U	4	D	D	Yield 10 gpm; sand and gravel overlain by 35 ft. soil and sand.		
10S2	Mrs. Rosliuk	do	9-11-56	786	J	38	2	3 ft., 60g	5	33	Sd, G	P1	U	5	D	D	Yield 13 gpm; Ca, L.		
10P1	H. Rhemesagen	do	3-10-58	782	J	103	2	3 ft., 50g, dia 1½	... 2	... G	P1	... P1	10	D	... D	D	Yield 10 gpm; Cu.		
10P2	G. Deon	do	5-14-58	785	J	77	2	3 ft., 50g, dia 1½	... 2	... G	P1	... P1	7	D	... D	D	Yield 15 gpm; Cu.		
10G1	L. P. Moore	do	8-22-54	792	J	43	2	3 ft., dia 1	... 2	... G	P1	... P1	15	D	... D	D	Yield 16 gpm; Cu.		
10J1	R. Miller	do	8-25-59	787	J	40	2	3 ft., dia 1	28	11	Sd, G	P1	U	10	D	D	Yield 18 gpm; Cu.		
10J2	C. Alstrom	do	3-30-56	780	J	39	2	3 ft., 25g	12	27	Sd, G	P1	U	12	D	D	Yield 16 gpm; Cu.		
10K1	R. Moore	do	6-18-50	780	J	44	4	3 ft., 25g	2	17	Sd, G	P1	U	10	D	D	Yield 16 gpm; Cu.		
10K2	J. W. Pyle	do	3-20-53	785	J	36	2	3 ft., 50g, dia 1½	... 2	... G	P1	... P1	12	D	... D	D	Yield 16 gpm; Cu.		
10L1	D. Rosbottom	do	11-7-55	790	J	72	2	3 ft., 50g, dia 1½	... 2	... G	P1	... P1	16	D	... D	D	Yield 13 gpm; gravel overlain by 36 ft. fine sand.		
10L2	D. Nightengale	do	4-17-52	785	J	39	2	3 ft., 50g, dia 1½	... 2	... G	P1	... P1	12	D	... D	D	Yield 12 gpm; sand and gravel from 0-51 ft.		
10M1	V. Smith	do	6-0-48	784	J	78	2	3 ft., 50g, dia 1½	... 2	... G	P1	... P1	15	D	... D	D	Yield 13 gpm; originally drilled to 51 ft.; deepened 3-59-56; water level 12 ft. below bed.		
10M2	A. Gray	do	1955	787	J	62	2	3 ft., 50g, dia 1½	45	17	Sd, G	P1	U	6	D	D	Yield 13 gpm; gravel overlain by 38 ft. top soil and sand.		
10L3	do	Rochester Well and Pump Co.	11-12-58	787	J	42	2	S	3 ft., 50g, dia 1½	10	32	Sd, G	P1	U	10	D	D	Yield 14 gpm.	
10M1	Mr. Griffon	do	7-11-54	785	J	80	2	S	3 ft., 50g, dia 1½	13	87	Sd, G	P1	U	13	P	J1/4	Yield 14 gpm.	
10M2	R. C. Brown	do	12-7-59	780	J	41	2	S	2 ft., 18g	6	35	Sd, G	P1	U	6	D	D	Yield 13 gpm.	

30/3-10E3	Trustees, H. E. Millor Estate W. Ballou P. Willman	Rochester Moll and Pump Co.	4-18-57	760	J	2	S; Jrt.; 50K, dia 1½	---	---	Yield 14 KPM; Ca.	
10M4	IOM5	6-20-56	780	J	61	2	S; Jrt.; 50K, dia 1½	9	52	Yield 15 KPM; Ca, L.	
10M6	4-6-57	780	J	40	2	S; Jrt.; 50K, dia 1½	---	---	Yield 15 KPM;		
10M8	4-8-57	780	J	43	2	do	---	6	D	Gravel overlain by red and	
10M9	12-13-54	785	J	39	2	S; Jrt.; 10a1	---	---	Grey sand;		
10M7	C. Milton	8-3-59	783	J	43	2	S; Jrt.; 50K, dia 1½	25	5d, G	Yield 16 KPM; Ca, L.	
10M8	J. Nottell	9-19-57	793	J	57	2	do	46	5d, G	Yield 17 KPM; coarse gravel overlain by 53 ft top soil and sand; Ca.	
12N1	H. Werner	9-19-57	793	J	11	8	do	10	D	Yield 13 KPM.	
12D1	H. Moore	do	2-28-53	792	J	82	2	5; 250A	10	S	Yield 14 KPM.
12D2	do	9-5-53	792	J	80	2	S; Jrt.; 12a1	12	D	do	
12A1	Mr. Stophan	9-15-54	793	J	85	2	S; Jrt.; 50K, dia 1½	12	D, S	do	
12A1	H. C. Porcival	9-21-57	790	J	61	2	S; Jrt.; 50K, dia 1½	5	S	do	
12B1	Mr. Bults	4-17-54	780	J	73	2	S; Jrt.; 50K, dia 1½	30	S	do	
12B2	N. Konnik	12-3-55	780	J	55	2	S; Jrt.; 50K, dia 1½	34	S	do	
12B2	W. Muller	10-30-56	780	J	58	2	S; Jrt.; 50K, dia 1½	47	S	do	
12B4	R. Blue	11-2-56	780	J	58	2	S; Jrt.; 50K, dia 1½	34	S	do	
12B5	C. W. Sharff	7-17-59	780	J	58	2	S; Jrt.; 50K, dia 1½	10	D	do	
12F1	Mr. Muller	3-16-54	787	J	67	2	S; Jrt.; 10a1	6	D	do	
12F2	C. D. Moesley	5-1-56	785	J	41	2	S; Jrt.; 12a1	49	Sa, G	Yield 11 KPM; Gravel overlain by 28 ft sand;	
12F3	R. Clear	6-4-50	783	J	74	2	S; Jrt.; 18a1	56	G, Sd	Yield 15 KPM; L.	
12F4	Mrs. A. Huddleston	11-19-58	787	J	71	2	S; Jrt.; 18a1	52	Sd	Yield 13 KPM; do 10 ft well 15P3.	
12F5	N. Gorben	7-30-56	784	J	70	2	S; Jrt.; 18a1	51	Sd	Yield 17 KPM; L.	
12G1	C. Kreibraum	9-1-53	792	J	50	2	S; Jrt.; 18a1	54	G	do	
12J1	D. Zimmerman	6-16-55	790	J	56	2	S; Jrt.; 18a1	55	Sd	Yield 13 KPM.	
12R1	J. Tripp	8-28-48	779	Dr	64	4	S; 10ft	4	Sd	Ca.	
16A1	Loyal Order of Mooso	6-2-55	782	J	63	2	S; Jrt.; 50K, dia 1½	60	Sa, G	1.2 ft pumping 14 KPM; L.	
16B1	O. E. Henderson	10-57	814	J	70	2	do	39	Sa, G	Yield 17 KPM.	
16F1	K. Zartman	11-17-58	820	J	102	2	S; Jrt.; 50K, dia 1½	31	G, Sd	Brown sandy gravel overlain by 35 ft blue clay.	
16F2	F. K. Jones	7-6-59	805	J	62	2	S; Jrt.; 50K, dia 1½	51	Sa, G	Yield 15 KPM; L.	
16F3	R. Hopper	7-7-59	810	J	60	2	S; Jrt.; 50K, dia 1½	17	Sa, G	Yield 16 KPM; sine log well 16P4.	
16F4	E. F. Rauter	8-26-57	800	J	50	2	S; Jrt.; 50K, dia 1½	24	Sd	L.	
16G1	L. Cullinan	8-3-58	786	J	55	2	S; Jrt.; 50K, dia 1½	31	Sa, G	Yield 13 KPM; sand and gravel from 0-55 ft.	
16H1	R. N. Goodman	9-6-58	787	J	55	2	S; Jrt.; 50K, dia 1½	12	S	Coarse gravel overlain by 54 ft sand; Ca.	
16H2	W. E. Simpson	6-18-58	787	J	55	2	S; Jrt.; 50K, dia 1½	16	S	Yield 12 KPM; Ca, L.	
16H3	D. Davis	6-18-58	778	J	68	2	S; Jrt.; 50K, dia 1½	19	Sa, G	do	
16H4	L. Millor	10-20-58	778	J	62	2	S; Jrt.; 10a1, dia	5	S	do	
16H5	O. J. Bardor	1957	787	J	52	2	S; Jrt.; 50K, dia 1½	4	D	do	
16H6	E. W. Sod	10-10-58	778	J	58	2	S; Jrt.; 50K, dia 1½	52	Sa, G	do	
16H7	McGro Well Drilling Co.	8-10-57	872	J	125	2	S; 24ft	100	G	do	
16H8	W. Morris	do	do	do	do	25	G	100	D	do	
16H9	J. Vrand	9-17-56	808	J	59	2	S; 24ft, 50K, dia 1½	19	Br	Yield 12 KPM; Ca, L.	
17A1	R. McGriff	9-30-52	802	J	46	2	S; Jrt.; 10a1	40	P1	do	
17B1	K. Casalioman	10-22-57	787	J	43	2	S; Jrt.; 50K, dia 1½	31	Sa, G	do	
17C1	A. Oldfather	5-4-50	803	J	57	2	S; 31ft, 10a1	12	S	do	
17H1	A. Pomer, Jr.	8-15-51	802	J	64	2	S; Jrt.; 50K, dia 1½	31	Sa, G	do	
17H2	R. Smiley	9-20-56	808	J	49	2	S; Jrt.; 50K, dia 1½	27	S	do	
17H3	C. Richardson	9-11-51	802	J	40	2	S; Jrt.; 50K, dia 1½	34	S	do	
17H4	C. Black	10-15-51	783	J	82	2	S; Jrt.; 50K, dia 1½	30	D	do	
17H5	H. Simeon	5-13-55	795	J	47	2	S; 24ft, 50K, dia 1½	13	D	do	
20E1	J. Henderson	7-26-59	796	J	34	2	S; 24ft, 50K, dia 1½	142	Sa, G	Yield 20 KPM; Ca, L.	
21F1	O. McNamee	6-2-60	810	J	37	2	S; Jrt.; 10a1, dia	16	S	Yield 16 KPM; Ca, L.	
21F1	L. Swick	do	do	do	do	21	S	do	15	S	do
21H1	H. Carruthers	3-28-51	811	J	38	2	S; Jrt.; 50K, dia 1½	18	D	do	
23E1	H. Burton	4-11-55	787	Dr	140	4	S; Jrt.; 30a1	7	D	do	
24H1	T. Roberts	11-1-49	822	Dr	1,263	81	do	142	Sa, G	Sand and gravel from 0-148 ft; blue clay at 149 ft; Ca, oil test; bedrock at 248 ft? ft.	
25J1	G. S. Van Renn	3-13-56	780	J	61	6, 8d	do	81	P	do	

Table 3.—Records of wells and test holes in Fulton County, Indiana—Continued.

Well	Owner	Driller	Date completed	Depth to top (feet)	Thickness (feet)	Character	Geologic age	Condition of well	Depth of well below land-surface (feet)	Water level (feet)	Type of pump and borepower	Remarks	
30-3-28W1	H. Taylor	Rochester Well and Pump Co.	10-20-55	808	J	44	2	S; 3ft, dia 1½	41	3	G	P1 C	
	Mr. Ankertstrand	—do—	8-28-55	823	J	83	2	S; 2ft, 10in	70	13	Sd, G	P1 C	
2651	C. C. Wagner	—do—	9-19-51	832	J	103	2	S; 2ft, 30in	—	—	G	P1 C	
	M. C. Stevens	—do—	8-29-52	828	J	68	2	S; 2ft, 50ft, dia 1½	—	—	G	P1 C	
2751	L. W. Washburn	—do—	10-28-55	812	J	43	2	S; 3ft, 50ft, dia 1½	61	15	Sd, G	P1 C	
	D. Polito	—do—	11-7-59	810	J	78	2	S; 3ft, dia 1½	—	—	G	P1 C	
3051	M. Reed	—do—	1-19-54	792	J	65	2	S; 3ft, dia 1½	—	—	Sd, G	P1 C	
	J. Brown	—do—	9-1-59	795	J	78	2	S; 3ft, 60ft, dia 1½	—	—	Sd, G	P1 C	
3161	S. H. Broter	—do—	4-2-57	803	J	50	2	S; 3ft, 60ft, dia 1½	—	—	G	P1 C	
	H. Lowe	Rochester Well and Pump Co.	—do—	817	Dr	62	4	S; 2ft, 30in	—	—	G	P1 C	
	B. Kols	—do—	8-14-54	832	J	83	2	S; 3ft, 12in	—	—	G	P1 C	
3461	I. Dukor	—do—	11-21-59	832	J	76	4	S; 4ft, 25ft, dia 3½	—	—	Sd, G	P1 C	
3451	G. O. McMillen	—do—	2-16-59	835	J	76	2	S; 3ft, 10in	—	—	G	P1 C	
3461	H. Sampson	—do—	8-3-54	837	J	70	2	S; 3ft, 12in	—	—	G	P1 C	
3462	C. Sampson	—do—	4-23-56	835	J	72	2	S; 3ft, 50ft, dia 1½	—	—	G	P1 C	
18		McGraw Well Drilling Co.	7-55	830	J	50	2	—	—	35	15	Sd, G	P1 U
	—do—	Rochester Well and Pump Co.	4-27-50	840	J	68	2	S; 10in	—	—	Sd, Gd	P1 U	
	D. Showley	McGraw Well Drilling Co.	1856	822	J	75	2	S; 3ft, 10in, dia 1½	33	40	G, Sd	P1 U	
3551	M. Davidson	Rochester Well and Pump Co.	10-20-49	832	J	58	2	S; 3ft, 60ft	—	—	G	P1 U	
	N. Meiser	—do—	11-13-56	825	J	97	2	S; 3ft, 10in	—	—	G	P1 U	
3551	A. Powell	McGraw Well Drilling Co.	10-1-58	832	J	73	2	S; 2ft, 10in, dia 1½	—	—	G	P1 U	
	R. L. Oxle	—do—	9-28-59	840	J	75	2	S; 3ft, 10in, dia 1½	—	—	G	P1 U	
3651	M. Bouch	H. Sauer and Sons	10-5-54	830	J	68	2	S; 3ft, 12in, dia 1½	—	—	Sd, G	P1 C	
3651-1A1	W. Boron	—do—	5-2-60	898	J	18	2	S; 3ft, 12in, dia 1½	33	15	Q	P1 C	
1H1	—do—	7-3-51	804	J	26	—	S; 3ft	—	24	4	G	P1 C	
2B1	H. Punnett	—do—	4-15-80	865	J	63	2	S; 3ft, 12in, dia 1½	—	—	G	P1 C	
4D1	W. Safford	Rochester Well and Pump Co.	11-24-54	820	J	73	2	S; 3ft, 12in	70	10	G	P1 C	
	D. D. Peterson	—do—	11-21-56	815	J	80	2	S; 2ft, 16in	43	37	Sd, G	P1 C	
	H. Sauer and Sons	—do—	11-9-52	812	J	43	2	S; 3ft, 12in	40	3	G	P1 C	
	M. Blumenthal	—do—	5-22-57	816	J	81	4	S; 4ft, 25ft, dia 4	—	—	G	P1 C	
7C1	J. Burps	P. Cox	8-18-80	797	J	40	2	S; 3ft, 12in, dia 1½	—	—	Sd, G	P1 C	
7P1	O. Miller	Rochester Well and Pump Co.	3-28-51	808	J	45	2	S; 3ft, 60ft, dia 1½	—	—	Sd, G	P1 C	
	U. Maddur	—do—	6-19-56	809	J	53	2	S; 3ft, dia 1½	25	28	G	P1 U	
7N1	A. Stryer	—do—	3-2-55	808	J	42	2	S; 3ft, 60ft, dia 1½	10	32	G, Sd	P1 U	
7P1	C. H. Meredith	—do—	8-11-49	807	J	33	2	S; 80ft	—	—	G	P1 C	
7P2	Oliver Park Machinery Co.	—do—	11-10-49	808	J	43	2	S; 2ft, 50ft, dia 1½	7	12	P	P1 C	
7P3	R. Bortors	—do—	2-1-55	805	J	38	2	S; 2ft, 50ft, dia 1½	12	12	D	P1 C	

Gravel overlain by 4 ft yellow clay; Ca.  
Sand and gravel overlain by 70 ft blue clay; Ca.  
Yield 8 gpm; Ca.  
Ca.  
Gravel overlain by clay; Ca.  
Yield 15 gpm; L.  
Yield 16 gpm; Ca, L.  
Yield 17 gpm; Ca, L.  
Yield 20 gpm; Ca.  
Yield 13 gpm; Ca.  
Yield 60 gpm; Ca, L.  
Yield 10 gpm; originally drilled to 62 ft; blue and yellow gravel from 62-72 ft; record missed from 0-62 ft; Ca, L.  
Yield 13 gpm; Ca.  
Yield 60 gpm; Ca, L.  
Yield 10 gpm; gravel and sand overlain by 35 ft clay; Ca.  
Fine to coarse gravel and sand overlain by 35 ft clay; Ca.  
Yield 10 gpm; Ca, L.  
Yield 10 gpm; Ca, L.  
Yield 6 gpm; see log well  
S1Q2; Ca.  
Yield 20 gpm; Ca, L.  
Yield 11 gpm; gravel overlain by 24 ft yellow clay; Ca.  
Yield 15 gpm; Ca, L.  
L.  
Yield 16 gpm; Ca, L.  
Yield 17 gpm; Ca, L.  
Yield 20 gpm; Ca, L.  
Yield 15 gpm; Ca, L.  
Ca.  
Yield 13 gpm; L.  
Yield 13 gpm; L.  
Yield 13 gpm; gravel overlain by sand.

10/4-11M	Tyndores, Swick Bataco	H. Sauer and Sons	10- 3-49	839 J	44	2 s; 34 ft, 12 ft, dia 14	39	5 G	P1 C	18 D	J	
11N1	H. Page	-----	8-12-52	833 J	46	2 s; 34 ft, 12 ft, dia 14	43	2 Sd	P1 C	18 D	J	
13L1	E. Terrell	-----	12-27-55	857 J	55	2 s; 34 ft, 10 ft, dia 14	52	3 G	P1 C	24 D	S J1/4	
15M1	C. Utter	-----	10-26-52	830 J	66	2 s; 34 ft, 12 ft, dia 14	62	4 Sd, G	P1 C	20 D	S J1/3	
17E1	E. Koester	Rochester Moll and Pump Co.	3- 1-54	816 J	44	2 s; 4 ft	30	14 Sd, G	P1 C	15 D		
17Q1	N. Zimmerman United Brotheran Church	-----	6- 3-57	812 J	40	2 s; 34 ft, 50 ft, dia 14	47	-----	P1 C	15 D		
18C1	F. W. Bowers	Rochester Moll and Pump Co.	4-22-60	810 J	27	2 s; 34 ft, 50 ft, dia 14	55	12 Sd	P1 C	10 D		
22D1	R. Hiley	Rochester Moll and Pump Co.	7-12-60	827 J	26	2 s; 34 ft, 10 ft, dia 14	55	-----	P1 C	15 D		
23C1	Mr. Mergaleki	H. Sauer and Sons	7- 9-52	832 J	36	2 s; 34 ft, 10 ft, dia 14	56	3 G	P1 C	12 D		
23D1	Mr. McBrown	-----	4- 4-55	840 J	38	2 s; 34 ft, 10 ft, dia 14	54	4 G	P1 C	12 D		
24D1	H. Hartman	-----	1944	849 Dr	70	2 s; 34 ft, 60 ft, dia 14	54	-----	P1 C	23 P	T15	
24G1	Town of Akron	-----	1944	849 Dr	70	2 s; 34 ft, 12 ft, dia 14	47	-----	P1 C	23 P	T15	
24G2	-----	H. Sauer and Sons	10-11-59	862 J	52	2 s; 34 ft, 12 ft, dia 14	47	6 G	P1 C	17 D	JL/3	
24H1	T. Robinson	Stremosol and Hill	7- 8-40	868 Dr	92	4 s	-----	-----	Sd, G	P1 C	17 D	
24J1	D. A. Pike Labor Co.	H. Sauer and Sons	4-11-57	852 J	42	2 s; 24 ft, 10 ft, dia 14	55	-----	P1 C	19 D	L	
24L1	F. Maegearth	-----	1951	850 J	39	2 s; 24 ft, 10 ft, dia 14	55	-----	P1 C	19 D	L	
25F1	A. A. Gaet	-----	1-18-52	852 J	57	2 s; 34 ft, 10 ft, dia 14	54	3 G	P1 C	18 D		
25M1	M. K. Gast	Rochester Moll and Pump Co.	4- 6-54	855 J	23	2 s; 34 ft, 10 ft, dia 14	55	3 G, Sd	P1 C	4 S		
26H1	O. Sauberman	-----	1951	855 J	165	2 s; 34 ft, 10 ft, dia 14	55	4 G	P1 C	35 D, S	JL/2	
26Q1	A. C. Hammerol	H. Sauer and Sons	1951	852 J	114	2 s; 34 ft, 10 ft, dia 14	55	-----	G, Sd	P1 C	3 D	
28K1	G. Bowen	Rochester Moll and Pump Co.	1-26-54	860 J	49	2 s; 24 ft, 10 ft, dia 14	55	-----	Sd	P1 C	16 S	
30B1	H. Mastellar	-----	8- 9-55	830 J	112	4 s; 34 ft, 20 ft, dia 14	55	-----	Sd	P1 C	16 S	
32B1	E. Runkle	-----	9-10-56	825 J	120	4 s; 34 ft, 20 ft, dia 14	55	30 G, Sd	P1 C	18 D		
32B1	E. Runkle	-----	1-25-57	825 J	57	2 s; 34 ft, 50 ft, dia 14	55	4 G	P1 C	30 D, S	JL	
32B1	E. Runkle	-----	1-25-56	847 Dr	64	4 s; 24 ft, 10 ft, dia 14	54	10 Sd	P1 C	25 D, S		
34E1	D. Stinson	-----	5- 5-59	865 J	106	2 s; 34 ft, 10 ft, dia 14	51	15 G, Sd	P1 C	40 D		
35G1	E. Astor	-----	5- 3-57	860 J	58	2 s; 34 ft, 10 ft, dia 14	51	-----	Sd	50 S	L	
36H1	E. L. Opple	-----	8-28-57	885 J	168	2 s; 34 ft, 50 ft, dia 14	57	40 Sd, G	P1 C	70 D, S	JL/4	
36J1	M. Clark	Rochester Moll and Pump Co.	7- 5-55	873 J	54	2 s; 34 ft, 10 ft, dia 14	43	11 G	P1 C	43 D		
36L1	R. Harlan	H. Sauer and Sons	7-24-52	862 Dr	26	14 s; 34 ft, 12 ft, dia 14	19	7 G	P1 C	19 N		
36M1	E. Boone	-----	1951	869 J	95	2 s; 34 ft, 12 ft, dia 14	92	3 G	P1 C	42 D		
21G1	B. Shireman	-----	8- 5-56	855 J	42	2 s; 34 ft, 12 ft, dia 14	92	-----	P1 C	36 D		
22R1	C. Goarhart	-----	4- 1-57	852 J	43	2 s; 24 ft, 25 ft, dia 14	137	40 Sd, G	P1 C	22 D	J	
27H2	E. Floor	H. Sauer and Sons	11-15-51	908 J	84	3 s; 4 ft, 12 ft, dia 14	73	19 G, Sd	P1 C	80 D, S	JL/1/2	
28K1	A. Bammerlin	Rochester Moll and Pump Co.	5-18-60	872 J	46	2 s; 34 ft, 12 ft, dia 14	90	6 G	P1 C	50 D, S		
28N1	J. Kraft	H. Sauer and Sons	-----	3-11-60	878 J	66	2 s; 8 ft, 60 ft, dia 14	70	17 Sd, G	P1 C	30 D, S	
31J1-	J. Miller	Z. W. Schroeder	3-28-57	787 J	67	2 s; 34 ft, 60 ft, dia 14	70	17 Sd, G	P1 C	31 D		
31J1-	W. Kraft	Rochester Moll and Pump Co.	2-23-51	792 J	99	4 s; 34 ft, 20 ft, dia 14	70	-----	P1 C	31 D		
31J1-	E. Goodman	Fisher Bros. Wall Drilling	9-24-59	748 J	73	41 s; 5 ft, 20 ft, dia 14	73	-----	P1 C	15 D, S	SJ/4	
2P1	D. DeMitt	-----	8-20-59	764 J	78	24 s; 34 ft, 60 ft, dia 14	125	3 G	P1 C	14 D		
6K1	A. Conclon	-----	7-23-50	771 J	128	24 s; 34 ft, 60 ft, dia 14	132	5 G	P1 C	14 D		
7A1	H. Langenbahn	-----	1- 4-50	750 J	137	3 s; 5 ft, 18 ft, dia 24	78	8 G, Sd	P1 C	37 D	JL/2	
8H1	L. Boppo	R. Price	5-20-50	720 J	78	3 s; 34 ft, 40 ft, dia 14	70	1 G, Sd	P1 C	44 D		
8R1	Indiana State High Way Department	Montello Engineering Co.	2-12-59	751 B	52	24 s; 34 ft, 60 ft, dia 14	16	1 G, Sd	P1 C	12 T	L. S.	
8H2	-----	-----	2-11-59	752 B	38	24 s; 34 ft, 60 ft, dia 14	24	-----	P1 C	13 T	L. S.	
8S2	-----	-----	2-11-59	757 B	52	24 s; 34 ft, 60 ft, dia 14	24	-----	P1 C	13 T	L. S.	

Yield 15 Rpm; Ca, L.  
Yield 17 Rpm; sand overlain by  
45 ft yellow and blue clay.  
Yield 17 Rpm; Ca, L.  
Yield 16 Rpm; Ca, L.  
Yield 15 Rpm; sand and fine  
gravel overlain by 30 ft  
hard clay; Ca.  
Yield 12 Rpm; sand overlain by  
45 ft gravel, mud, and top  
soil.  
Yield 15 Rpm; gravel overlain  
by 36 ft clay; Ca.  
Yield 16 Rpm; gravel overlain  
by 54 ft yellow and blue clay  
with stone stones; Ca.  
Yield 14 Rpm; L.  
Yield 13 Rpm; Ca, L.  
Yield 17 Rpm; originally drilled  
to 74 ft; Ca, L.  
Yield 12 Rpm; gravel overlain  
by clay.  
Yield 70 Rpm; Ca, L.  
Yield 15 Rpm; Ca, L.  
Yield 53 Rpm; Ca, L.  
Yield 15 Rpm; Ca, L.  
Yield 12 Rpm; Ca.  
Yield 12 Rpm; gravel overlain  
by 5 ft clay and sand.  
Yield 15 Rpm; L.  
Yield 15 Rpm; Ca, L.  
Yield 14 Rpm; Ca.  
Yield 17 Rpm; Ca.  
Yield 40 Rpm.  
Yield 16 Rpm; gravel with some  
sand from 38-92 ft; Ca.  
Yield 15 Rpm; L.  
Yield 13 Rpm; Ca, L.  
Yield 50 Rpm; Ca, L.  
Yield 7 ft after 2 hr pumpier 30  
Rpm; gravel overlain by 63 ft  
sand, blue clay, and gravel;  
Ca.

Table 3.—Records of wells and test holes in Fulton County, Indiana.—Continued

31/2-7EL	R. Overmyer	Rochester Well and Pump Co.	J	44	2	---	G	D, S	L	12	D, S	---	
8AL	K. Strong	-----	J	775	2	9; 3ft, 50g, dia 14	70	4	4	25	D	JL/2	
10AL	L. Dawson	5-27-57	J	74	2	9; 3ft, 50g, dia 14	70	4	42	D, S	JL/2		
10RL	R. Mason	5-12-55	J	74	2	do	do	do	62	S	JL/4		
11BL	Trustees, Richland Township	Fisher Bros. Well Drilling Co.	-----	825	2	do	do	do	do	do	do		
11N1	R. Fisher	8-20-57	J	62	2	8; 2ft, 30sl	44	18	G, Sd	P1	---		
12J1	C. B. Conrad	886	J	147	2	8; 2ft, 10sl	140	7	Sd, G	P1	---		
14H1	C. Bechler	1952	J	75	2	do	do	do	do	do	do		
15D1	H. Ault	1956	J	48	2	5; 3ft, 50g	39	9	8d, G	P1	---		
16N1	J. Richard	7-9-56	J	70	2	5; 3ft, 50g	46	24	Bd	P1	---		
18N1	H. J. Overmyer	Rochester Well and Pump Co.	9-10-60	785	J	118	24	S; 3ft, 60g, dia 14	94	24	G, Sd	P1	---
18R1	R. Garner	Fisher Bros. Well Drilling Co.	11-6-53	732	J	59	2	S; 3ft, 25sl	do	do	do	do	
18R2	W. Moore	7-5-52	J	61	2	S; 3ft, 10sl	do	do	do	do	do		
19R3	R. Jones	8-27-52	J	75	2	do	do	do	do	do	do		
19R4	E. Krantz and J. Smith	W. P. Fullidor	5-15-80	732	Dr	179	4	Ob	157	22	do	do	
20N1	H. Gauvin	Willard and Son	7-12-80	742	Dr	43	14	S; 2ft, 60g, dia 14	39	4	do	do	
22E1	E. M. Morcer	Rochester Well and Pump Co.	11-6-56	762	J	43	2	S; 3ft, 18sl	2	2	D	P	
22KL	C. Rocksteel	Fisher Bros. Well Drilling Co.	-----	805	J	70	2	do	do	do	do		
22L1	Mr. Rhoades	Rochester Well and Pump Co.	11-7-52	767	J	48	2	S; 3ft, dia 14	do	do	do	do	
23P1	Mr. Dawson	-----	6-27-53	787	J	58	2	S; 2ft, 60g, dia 14	32	24	G, Sd	P1	---
23P2	C. Moore	-----	6-7-54	808	J	80	2	S; 3ft, 50g	39	4	do	do	
24G1	G. Broter	Iznak Malton	10-23-54	751	do	do	do	do	do	do	do	do	
25R1	Iznak Malton	Longdo	4-7-54	762	J	65	2	S; 3ft, dia 14	do	do	do	do	
27H1	A. J. Horn	do	9-53	753	J	73	2	S; 10sl	do	do	do	do	
27L1	C. Chisholm	do	1-52	747	J	48	2	S; 3ft, 50g, dia 14	do	do	do	do	
30R1	W. Baldwin	do	4-23-57	748	J	43	2	S; 3ft, 60g	do	do	do	do	
31G1	E. Lockhart	do	9-20-67	748	J	43	2	S; 2ft, 60g	do	do	do	do	
31X1	do	do	8-20-49	747	J	32	2	S; 3ft, 60g	do	do	do	do	
31Q1	Mr. Barkman	do	3-25-49	790	J	104	2	S; 3ft, 10sl	do	do	do	do	
34N1	Mr. Bytold	do	5-29-52	765	J	75	2	S; 3ft, 10sl	30	19	Sd, G	P1	---
34R1	R. Holt	do	6-11-53	775	J	49	2	S; 3ft, 18sl	do	do	do	do	
34J1	J. Duzen	do	8-18-49	782	J	62	2	S; 3ft, 60g, dia 14	do	do	do	do	
35I1	Mr. Corzine	do	5-5-51	795	J	170	2	S; 3ft, 30sl	111	4	G, C	P1	---
35J1	J. Grass	do	8-24-53	816	J	115	2	S; 10sl	128	3	C	P1	---
35D1	Mr. Beddingor	do	3-13-54	827	J	129	2	S; 3ft, 30sl	do	do	do	do	
37R1	R. Stollhorn	Kasor Plumbing and Heating, Ind.	7-1-60	865	J	43	2	S; 4ft, 80g, dia 1	26	17	Sd, G	P1	---
8D1	D. Now	Rochester Well and Pump Co.	3-21-56	667	J	145	2	S; 2ft, 50R	117	28	Sd, G	P1	---
10E1	R. Overmyer	Fisher Bros. Well Drilling Co.	12-56	617	Dr	150	4	do	100	50	Sd, G	P1	---
11J1	Mr. Lantz	Rochester Well and Pump Co.	7-1-49	767	J	47	2	S; 3ft, dia 14	do	do	do	do	
12A1	Trustees, New-Castle Township	-----	8-14-58	774	J	56	2	S; 4ft, 30sl	38	18	G, Sd	P1	---
12B1	L. Myers	Rochester Well and Pump Co.	6-23-52	765	J	51	2	S; 2ft, 30sl	do	do	do	do	
12B2	Program Manu-	-----	-----	778	J	82	2	do	do	do	do	do	
12F1	L. Smith	R. Sanior and Sons	1955	765	J	44	2	do	do	do	do	do	
12G1	R. Hatfield	Rochester Well and Pump Co.	6-3-49	772	J	40	2	S; 3ft	do	do	do	do	

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P2

P3

P4

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P6

P7

P8

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P107

P108

P109

P110

P111

P112

P113

P114

P115

P116

P117

P118

P119

P120

P121

P122

P123

P124

Table 3.—Records of wells and test holes in Fulton County, Indiana—Continued

Well	Owner	Driller	Finned		Type of pump and horsepower	Remarks		
			Depth to top (feet)	Thickness (feet)				
			Character	Geologic age				
31-3-1262	Rochester Hardware Pump Co.	Rochester Well and Pump Co.	5-26-54	772	54	2 ft; 3 ft	Flowed 5 gpm from pipe 3 ft below bed. Yield 13 gpm; Ca, L.	
14X1	P. Meadon	Do	8-16-56	787	57	2 ft; 3 ft; 60 ft	Yield 10 gpm; Ca.	
14P1	F. Uliss	Do	7-15-49	765	54	2 ft; 3 ft; 10 ft	Do J1/2	
17B1	R. Rogers	Do	2-9-53	888	44	2 ft	80 ft; Ca.	
17H1	D. Parsons	Do	5-23-51	877	185	2 ft	80 ft; Ca.	
18A1	F. M. Polley	Do	8-28-56	870	52	2 ft	38 ft; Ca.	
18H1	E. Russoll	McGraw Well Drilling	8-28-56	875	65	2 ft; 3 ft; dia 14	40 ft; Ca.	
19G1	W. G. Evans	Do	9-10-55	840	68	2 ft; 2 ft; 10 ft	50 ft; L. Yield 15 gpm; L.	
19J1	Indiana Metal Products Corp.	Silver Drilling Co.	4-25-46	813	Dr	4 ft; 6 ft; 60 ft; dia 24	1 ft; T3; Ca.	
19Q2	Do	8-12-52	813	Dr	80 ft	4 ft; 10 ft; 10 ft	29 ft; Ca.	
19K1	G. Greenberg	Rochester Well and Pump Co.	7-16-52	850	75	100 ft; 2 ft; local	100 ft; Ca.	
20G1	Do	7-31-56	800	J	60	2 ft; 2 ft	11 ft; 4 ft; Ca.	
22B1	E. M. Wagoner	Do	7-20-55	755	70	2 ft; 3 ft	26 ft; J. Yield 10 gpm; Ca.	
22B2	Casp. Shouola	Do	7-11-52	756	71	2 ft; 3 ft; 30 ft	Flowed 2 gpm; Ca.	
- 22 -	F. Givau	Do	7-29-55	757	71	2 ft; 3 ft	Flowed 3 gpm; Ca.	
22G1	H. M. Miner	Do	5-27-52	767	44	2 ft; 3 ft; 35 ft	Flowed 3 gpm; Ca.	
23D1	J. Hambaugh	Do	2-20-55	772	54	2 ft; 3 ft; 60 ft; dia 1	12 ft; P. Yield 12 gpm; Ca.	
23E1	W. Rosanski	McGraw Well Drilling	1-31-57	770	58	2 ft; 3 ft; 50 ft; dia 14	14 ft; L. Yield 15 gpm; Ca, L.	
24E1	D. Dorrier	Do	1056	780	63	2 ft; 3 ft	14 ft; D. Gravel overlain by 5 ft red clay; Ca.	
24J1	Do	Rochester Well and Pump Co.	6-4-52	810	Dr	102 ft; 6 ft; 2 ft; 30 ft	19 ft; D. Yield 10 gpm; Ca.	
25M1	R. Koch	Do	8-14-53	782	59	2 ft; 3 ft	12 ft; S. Yield 14 gpm; Ca, L.	
25Q1	L. Swart	Do	1-7-57	803	114	2 ft; 3 ft; 50 ft; dia 14	22 ft; J1/2; Yield 17 gpm; Ca.	
26D1	D. Pfeiffer	Do	2-13-53	781	63	2 ft; 3 ft	11 ft; N. Yield 13 gpm; Ca.	
26N1	N. Baldwin	Do	4-5-54	772	76	2 ft; do	11 ft; N. Yield 15 gpm; Ca, L.	
28A1	P. Elmer	McGraw Well Drilling Co.	2-18-57	773	43	2 ft; 2 ft; 10 ft	16 ft; D. Yield 12 gpm; Ca.	
28E1	Q. A. Vandegrift	Rochester Well and Pump Co.	6-15-55	772	57	2 ft; 3 ft; 50 ft; dia 14	15 ft; J1/2; Yield 12 gpm; Ca.	
28E1	P. Elmer	Do	1954	772	39	2 ft; 3 ft	12 ft; S. Yield 16 gpm; Ca, L.	
28H1	Do	2-18-54	775	72	2 ft; 3 ft	15 ft; J1/4; Yield 16 gpm; Ca, L.		
28I1	Do	4-20-53	775	68	2 ft; 2 ft; 16 ft	15 ft; J1/2; Yield 16 gpm; Ca, L.		
29L1	F. Bastow	Do	1-1-53	757	43	2 ft; 3 ft	24 ft; D. Yield 16 gpm; Ca, L.	
29M1	I. O. Pfeiffer	Do	10-12-53	757	43	2 ft; do	10 ft; S. Yield 16 gpm; Ca, L.	
30P1	Montucky Farms	Do	1-1-49	785	99	2 ft; 3 ft; 60 ft; dia 1	40 ft; S. Yield 16 gpm; Ca, L.	
31P1	H. Hobson	Do	3-18-54	767	60	2 ft; 3 ft; 50 ft; dia 1	33 ft; J1/2; Yield 16 gpm; Ca, L.	
32C1	J. Esthlaan	McGraw Well Drilling	7-28-58	1857	48	2 ft; 3 ft; 10 ft; dia 1	17 ft; S. Yield 16 gpm; Ca, L.	
32E1	J. Barts	Rochester Well and Pump Co.	12-11-54	787	81	2 ft; 3 ft; 50 ft; dia 14	26 ft; D. Yield 13 gpm; Ca, L.	
32E2	R. Redwald	Do	9-18-56	765	79	2 ft; 3 ft; 18 ft	70 ft; C. Yield 8 gpm; Ca, L.	
32G1	M. Haorth	Do	7-11-49	773	58	2 ft; 3 ft; 10 ft	42 ft; S. Yield 10 gpm; Ca, L.	
32K1	T. Postaine	Do	6-7-55	785	48	2 ft; 3 ft; 20 ft	6 ft; S. Yield 10 gpm; Ca, L.	
32N1	Trustees, C. Bouch	Do	10-20-50	768	49	2 ft; 3 ft; 60 ft; dia 14	22 ft; N. Yield 16 gpm; Ca, L.	
32Q1	J. Zoppo	Do	9-30-57	778	44	2 ft	11 ft; L. Coarse sand overlain by top soil and gray sand; Ca.	
32Q2	B. Brock	McGraw Well Drilling Co.	7-14-59	776	50	2 ft; 2 ft; 10 ft; dia 14	40 ft; D. Yield 10 gpm; Ca, L.	
32R1	M. Thompson	Rochester Well and Pump Co.	8-3-59	780	42	2 ft; 3 ft; 50 ft; dia 14	34 ft; D. Yield 16 gpm; Ca, L.	

31/3-J3P1	R. Smith	Rochester Well and Pump Co.	8- 3-59	782 J	39	2 S; 3ft, 18s1	10	29 G, Sd	P1	U	10 D, S	J1/4
34D1	J. Wolt	---	10-19-56	778 J	93	2 S; 2ft, 18s1	65	8 Sd, G	P1	C	10 D, S	Q1/2
35K1	J. R. Anderson	---	11-18-55	785 J	108	2 S; 3ft, 50g, dia 14	---	---	P1	---	16 D, S	I1/4
31/4- 5B1	A. Krycis	---	5-10-49	792 J	58	2 S; 24ft	---	---	P1	---	15 D, S	J1/3
9M1	E. Baumgard	do	7-24-53	802 J	45	2 S; 24ft	---	---	P1	---	15 D, S	J
16H1	L. Morris	P. Cox	7-21-60	822 J	76	2 S; 3ft, 12s1, dia 14	---	---	P1	C	30 D, S	----
18P1	D. I. Eaton	Rochester Well and Pump Co.	9-11-50	800 J	81	2 S; 3ft	---	---	P1	---	26 D, S	J1/2
21G1	A. A. Miller	H. Sauer and Sons	2-28-57	867 J	39	2 S; 21B1	21	18 Sd, G	P1	U	21 D	J
29P1	C. Hinton	McGraw Well Drilling Co.	1958	820 J	63	2 S	59	4 Sd	P1	C	43 D, S	L
29Q1	R. Peterson	Rochester Well and Pump Co.	3-15-56	830 J	82	2 S; 2ft, 18s1	---	---	P1	---	44 D, S	J1/2
31Q1	A. E. Stinson	do	5-25-49	802 J	45	2 S; 3ft	---	---	G, Sd	P1	---	LB
31Q2	do	do	11-17-52	802 J	55	2 S; 3ft	---	---	Sd, G	P1	---	S
31Q3	do	do	2- 7-53	808 J	55	2 S; 3ft	---	---	P1	---	26 D	J1/4

Table 4.--Selected logs of wells and test holes in Fulton County, Indiana

Well 29/1- 1F1

Type of record:	Driller's log.	Altitude: 761 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	19	19	
Silt sand-----	28	47	
Gravel, medium-----	5	52	

Well 29/1- 9E1

Type of record:	Driller's log.	Altitude: 761 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and yellow clay-----	10	10	
Clay, blue-----	40	50	
Clay, blue, and sand-----	10	60	
Clay, blue-----	10	70	
Clay, blue, sand, and gravel-----	9	79	
Gravel-----	8	87	

Well 29/1-11C1

Type of record:	Driller's log.	Altitude: 762 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	70	70	
Clay, blue, and sand-----	10	80	
Gravel-----	10	90	

Well 29/1-11C2

Type of record:	Driller's log.	Altitude: 762 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	25	25	
Sand and gravel-----	45	70	
Gravel-----	10	80	

Well 29/1-22F1

Type of record:	Driller's log.	Altitude: 762 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Fill-----	4	4	
Clay, red-----	4	8	
Clay, blue-----	21	29	
Sand, fine-----	1	30	
Clay, blue-----	21	51	
Sand, fine-----	2	53	
Clay, blue-----	18	71	

Table 4.--Selected logs of wells and test holes in Fulton County, Indiana--Cont.

Well 29/1-22F1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, fine-----	2	73	
Clay, blue-----	32	105	
Gravel, large-----	10	115	

Well 29/1-23F1

Type of record:	Driller's log.	Altitude:	785 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow and dark-----	15	15	
Clay, yellow-----	12	27	
Clay and hardpan-----	4	31	
Clay, blue-----	49	80	
Sand-----	1	81	
Sand, coarse, sharp-----	3	84	
Clay, blue-----	16	100	
Sand, coarse-----	3	103	Clover-seed size.

Well 29/1-36G1

Type of record:	Driller's log.	Altitude:	788 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Record missing-----	6	6	
Clay, sandy, blue-----	61	67	
Gravel, muddy, sandy, becoming cleaner and coarser with depth-----	18	85	
Gravel, coarse, clean-----	11	96	

Well 29/2- 1R1

Type of record:	Driller's log from memory.	Altitude:	793 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Clay, with trace of sand-----	60	60	
Sand and gravel-----	5	65	
Clay-----	14	79	
Gravel, coarse-----	4	83	

Well 29/2- 4D1

Type of record:	Driller's log from memory.	Altitude:	768 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Sand and silt-----	22	22	
Clay, blue-----	3	25	

Table 4.--Selected logs of wells and test holes in Fulton County, Indiana--Cont.

Well 29/2- 4D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	3	28	
Clay-----	46	74	
Gravel-----	3	77	

Well 29/2- 4F1

Type of record: Driller's log.	Altitude: 768 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, yellow-----	20	20
Clay, blue, and gravel-----	45	65
Gravel-----	8	73

Well 29/2- 9P1

Type of record: Driller's log.	Altitude: 775 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Sand, brown-----	6	6
Clay, brown-----	6	12
Clay, blue-----	16	28
Gravel, gray, and clay; mixed-----	26	54
Gravel, coarse, blue-----	5	59

Well 29/2-13C1

Type of record: Driller's log from memory.	Altitude: 802 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, brown-----	18	18
Gravel, brown-----	6	24
Clay, blue-----	42	66
Sand, fine-----	3	69
Gravel, blue-----	5	74

Well 29/2-23G1

Type of record: Driller's log.	Altitude: 790 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Top soil-----	1	1
Clay, brown-----	16	17
Gravel, coarse, blue-----	3	20
Clay, blue-----	4	24
Gravel, medium, blue-----	4	28
Clay, blue-----	8	36
Clay, blue, and sand; mixed-----	14	50

Table 4.--Selected logs of wells and test holes in Fulton County, Indiana--Cont.

Well 29/2-23G1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Gravel, medium, blue-----	14	64	
Clay, gray-----	24	88	
Gravel, medium, blue-----	7	95	

Well 29/2-23J3

Type of record: Driller's log. Altitude: 792 feet.

Quaternary System:

Recent and Pleistocene Series:	Thickness (feet)	Depth (feet)	Remarks
Clay, brown-----	14	14	
Clay, blue-----	11	25	
Clay, hard, blue, and gravel; mixed-----	9	34	
Clay, blue-----	15	49	
Sand and blue clay-----	5	54	
Gravel, medium, blue-----	5	59	

Well 29/2-23J4

Type of record: Driller's log. Altitude: 792 feet.

Quaternary System:

Recent and Pleistocene Series:	Thickness (feet)	Depth (feet)	Remarks
Top soil-----	2	2	
Clay, hard, blue-----	16	18	
Sand and gravel-----	4	22	
Clay, blue; with sandy gravel---	26	48	
Sand and gravel; gray-----	12	60	

Well 29/2-24E1

Type of record: Driller's log. Altitude: 798 feet.

Quaternary System:

Recent and Pleistocene Series:	Thickness (feet)	Depth (feet)	Remarks
Top and sub soil-----	10	10	
Clay, hard, sandy, blue-----	8	18	
Gravel, blue-----	3	21	
Clay, hard, sandy, blue-----	39	60	
Gravel, medium to coarse, sandy, gray-----	5	65	

Well 29/2-32N1

Type of record: Driller's log. Altitude: 785 feet.

Quaternary System:

Recent and Pleistocene Series:	Thickness (feet)	Depth (feet)	Remarks
Top soil, muck, and peat-----	11	11	
Clay, bluish-gray-----	44	55	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 29/2-32N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel, muddy-----	2	57	
Clay, blue-----	14	71	
Gravel, blue-gray-----	7	78	

Well 29/2-32P1

Type of record: Driller's log.	Altitude: 802 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, brown-----	23	23
Clay, blue-----	12	35
Gravel, medium, brown-----	5	40
Gravel, coarse, blue-----	2	42
Sand, fine, yellow-----	16	58
Gravel, fine, blue-----	4	62

Well 29/2-35H1

Type of record: Driller's log.	Altitude: 803 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, brown-----	25	25
Clay, blue, and sand-----	15	40
Hardpan-----	14	54
Gravel, coarse, blue-----	3	57
Gravel, fine, and coarse sand-----	1	58

Well 29/3- 3B1

Type of record: Driller's log.	Altitude: 830 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, brown-----	20	20
Clay, sandy-----	40	60
Clay, blue-----	12	72
Sand, medium, brown-----	6	78

Well 29/3- 3L1

Type of record: Driller's log.	Altitude: 821 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, brown-----	14	14
Hardpan, brown-----	7	21
Clay, blue-----	6	27
Hardpan-----	3	30
Clay, soft, blue-----	12	42
Gravel, medium, brown-----	10	52

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 29/3- 7P1

Type of record: Driller's log. Altitude: 800 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, brown-----	18	18	
Gravel, brown-----	2	20	
Clay, blue, and fine gravel-----	25	45	
Clay, soft, blue-----	7	52	
Gravel, medium, blue-----	5	57	

Well 29/3-10N1

Type of record: Driller's log. Altitude: 800 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, sandy, blue-----	10	10	
Clay, blue, and gravel; mixed-----	25	35	
Clay, gray, and sand-----	47	82	
Gravel, medium, blue-----	4	86	

Well 29/3-15E2

Type of record: Driller's log. Altitude: 810 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand and small stone-----	10	10	
Clay, blue-----	36	46	
Sand, fine, with some gravel-----	1	47	
Clay, blue-----	73	120	
Silt-----	10	130	
Record missing-----	4	134	
Gravel, fine, brown-----	3	137	

Well 29/3-15E3

Type of record: Driller's log. Altitude: 810 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand and small rocks-----	10	10	
Clay, blue-----	36	46	
Gravel-----	1	47	
Clay, blue-----	65	112	
Silt sand-----	14	126	
Gravel, medium-----	5	131	

Well 29/3-15M1

Type of record: Driller's log. Altitude: 813 feet

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, yellow-----	16	16	
Hardpan with embedded pebbles-----	13	29	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 29/3-15M1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand, fine gray-----	8	37	
Gravel, pea-sized-----	4	41	

Well 29/3-16H2

Type of record:	Driller's log.	Altitude:	805 feet.
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Soil, gravelly, sandy, yellow-----	14	14	
Clay, sandy, blue-----	11	25	
Gravel, sandy-----	2	27	
Clay, blue, with some sand-----	2	29	
Gravel, sandy, grayish-yellow-----	6	35	

Well 29/3-16H3

Type of record:	Driller's log.	Altitude:	805 feet.
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Top soil and yellow clay-----	4	4	
Clay, hard, sandy, blue-----	17	21	
Gravel, slightly sandy, blue-gray-----	3	24	

Well 29/3-16H4

Type of record:	Driller's log.	Altitude:	805 feet.
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, brown-----	2	2	
Gravel, brown-----	12	14	
Clay-----	6	20	
Clay, blue, and gravel; mixed-----	26	46	
Gravel, fine, blue-----	3	49	
Clay, blue, and sand; mixed-----	24	73	
Gravel, medium, blue-----	3	76	

Well 29/3-16R2

Type of record:	Driller's log.	Altitude:	800 feet.
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Fill, muck, and sand with peat---	37	37	
Clay, blue-----	11	48	
Clay and stone-----	9	57	
Clay, blue-----	21	78	
Sand, fine, light-----	5	83	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 29/3-16R2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, fine, dark-----	3	86	
Gravel, coarse-----	5	91	

Well 29/3-22E2

Type of record:	Driller's log.	Altitude:	810 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Top soil, sand, and yellow clay--	36	36	
Clay, blue-----	23	59	
Silt sand-----	12	71	
Clay, blue-----	17	88	
Sand and stone-----	4	92	
Gravel-----	1	93	
Sand, fine, gray-----	16	109	
Gravel-----	4	113	

Well 30/1- 1C1

Type of record:	Driller's log.	Altitude:	760 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Clay, red, and gravel-----	20	20	
Sand and gravel-----	10	30	
Clay, blue, and gravel-----	14	44	
Sand, fine, and gravel-----	26	70	
Gravel-----	10	80	

Well 30/1- 5A1

Type of record:	Driller's log.	Altitude:	765 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	50	50	
Clay, blue, and sand-----	20	70	
Sand and gravel-----	14	84	

Well 30/1- 6G1

Type of record:	Driller's log.	Altitude:	727 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Sand and stony clay-----	14	14	
Clay, stony, blue-----	7	21	
Clay and gravel; blue-----	1	22	
Clay, stony, blue and brown soft clay-----	14	36	
Clay, stony, blue, with sand-----	3	39	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/1- 6G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, soft, blue, and sand mixed-----	17	56	
Sand-----	9	65	
Gravel, pea-sized and larger-----	4	69	

Well 30/1- 6H2

Type of record: Driller's log.	Altitude: 724 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay-----	30	30
Sand and gravel-----	29	59
Gravel-----	3	62

Well 30/1- 6J1

Type of record: Driller's log.	Altitude: 733 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay-----	10	10
Gravel-----	4	14
Clay, red-----	2	16
Sand-----	1	17
Clay, blue-----	10	27
Sand-----	2	29
Clay, blue-----	3	32
Sand-----	1	33
Clay, blue-----	13	46
Sand-----	3	49
Gravel-----	15	64

Well 30/1- 6P2

Type of record: Driller's log.	Altitude: 730 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Soil, clayey-----	9	9
Sand, fine, packed-----	9	18
Sand, gray-----	36	54
Sand, sharp, dark-----	4	58
Gravel-----	4	62

Well 30/1- 6R1

Type of record: Driller's log.	Altitude: 728 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Top soil-----	2	2
Marsh bog-----	16	18

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/1- 6R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Silt sand-----	18	36	
Sand, gray-----	18	54	
Clay, blue-----	7	61	
Sand, fine-----	5	66	
Sand, dark-gray-----	3	69	
Sand, coarse, heavy-----	3	72	

Well 30/1- 9E1

Type of record:	Driller's log.	Altitude:	762 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	16	16	
Clay, blue-----	15	31	
Sand-----	10	41	
Clay, blue, and gravel-----	20	61	
Gravel and sand-----	24	85	
Gravel-----	3	88	

Well 30/1-12P1

Type of record:	Driller's log.	Altitude:	756 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	30	30	
Sand with clay and gravel-----	40	70	
Sand and gravel-----	20	90	

Well 30/1-14R1

Type of record:	Driller's log.	Altitude:	778 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	54	54	
Sand and gravel-----	34	88	
Clay, blue, and sand-----	10	98	
Gravel-----	14	112	

Well 30/1-27F1

Type of record:	Driller's log.	Altitude:	775 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Loam, sandy-----	3	3	
Clay, yellow-----	24	27	
Clay, sandy, blue-----	15	42	
Hardpan; blue clay-----	7	49	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/1-27F1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, fine, and clay-----	18	67	
Sand, dirty-----	15	82	
Clay, blue-----	14	96	
Gravel, coarse, with clay balls--	8	104	
Clay-----	1	105	
Sand, medium-----	6	111	
Clay, blue-----	8	119	
Gravel with clay balls-----	1	120	
Gravel and sand with large rocks-	13	133	Bedrock at 133 feet.

Well 30/2- 1E1

Type of record: Driller's log.	Altitude: 763 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Top and sub soil-----	12	12
Clay, blue-----	14	26
Sand, fine, light-gray-----	7	33
Sand, fine to medium, gray-----	6	39

Well 30/2- 4N1

Type of record: Driller's log.	Altitude: 752 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Sand and blue clay-----	36	36
Sand, fine-----	11	47
Sand, fine to coarse-----	6	53

Well 30/2- 8A2

Type of record: Driller's log.	Altitude: 770 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Sand-----	6	6
Rock, hard, gray-----	4	10
Clay layer or boulder.		
Sand, gray-----	22	32
Sand, coarse, with some fine-----	6	38

Well 30/2-12J1

Type of record: Driller's log.	Altitude: 777 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Sand, yellow-----	8	8
Sand, fine, gray-----	6	14
Sand, fine-----	2	16

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

## Well 30/2-12J1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan; clay and stone-----	11	27	
Sand, fine, gray-----	20	47	
Gravel, coarse-----	5	52	

## Well 30/2-18C1

Type of record: Driller's log.	Altitude: 751 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Soil and yellow clay-----	18	18
Clay, blue-----	16	34
Sand-----	10	44
Gravel, pea-sized and larger-----	3	47

## Well 30/2-20C1

Type of record: Driller's log.	Altitude: 755 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Sand, yellow-----	18	18
Sand, fine, gray-----	22	40
Sand and gravel; gray-----	5	45
Gravel, medium-----	5	50

## Well 30/2-24R1

Type of record: Driller's log.	Altitude: 777 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, blue-----	30	30
Sand and clay-----	9	39
Gravel-----	5	43

## Well 30/2-25H1

Type of record: Driller's log.	Altitude: 781 feet.	
Quaternary System:		
Recent and Pleistocene Series:		
Clay, yellow-----	18	18
Clay, blue-----	6	24
Sand, silty, gray-----	9	33
Gravel with some fine sand-----	3	36
Gravel-----	3	39

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/2-30N1

Type of record: Driller's log. Altitude: 762 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, blue-----	19	19	
Sand and gravel; red-----	11	30	
Clay, blue-----	12	42	
Gravel-----	6	48	

Well 30/2-34D1

Type of record: Driller's log. Altitude: 767 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy, brown-----	46	46	
Sand-----	3	49	
Sand, fine, and blue soft clay---	8	57	
Gravel, medium to coarse, blue---	6	63	

Well 30/3- 3M1

Type of record: Driller's log. Altitude: 792 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil, sand, and clay-----	36	36	
Sand, fine, silty-----	21	57	
Sand, dark-gray-----	5	62	
Gravel, pea-sized (3/8-inch)-----	5	67	

Well 30/3- 4Q1

Type of record: Driller's log. Altitude: 789 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil, clay, gravel, and stone-----	36	36	
Sand, fine-----	26	62	
Gravel, medium-sized-----	4	66	

Well 30/3- 5B1

Type of record: Driller's log. Altitude: 782 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow-----	8	8	
Sand, fine, gray-----	15	23	
Clay, hard, blue-----	12	35	
Sand, fine, gray-----	4	39	
Gravel, coarse, blue-----	3	42	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

## Well 30/3- 5D1

Type of record: Driller's log.	Altitude: 763 feet.		
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Fill and soil-----	18	18	
Sand with trace of gravel-----	11	29	
Clay, blue-----	5	34	
Sand, fine-----	20	54	
Sand, coarse-----	3	57	
Gravel, coarse-----	4	61	

## Well 30/3- 5R3

Type of record: Driller's log.	Altitude: 778 feet.		
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand-----	30	30	
Sand, muddy-----	22	52	
Gravel, coarse, with chunks of blue clay-----	5	57	
Gravel, coarse, clean-----	8	65	
Gravel, clean-----	5	70	
Sand, clean-----	7	77	

## Well 30/3- 7B1

Type of record: Driller's log.	Altitude: 777 feet.		
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, brown-----	4	4	
Gravel, brown-----	12	16	
Clay, blue-----	18	34	
Sand, fine, gray-----	12	46	
Gravel, fine, gray-----	3	49	
Gravel, medium, gray-----	3	52	

## Well 30/3- 7K2

Type of record: Driller's log.	Altitude: 787 feet.		
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand, yellow-----	16	16	
Gravel, coarse-----	8	24	
Silt sand, gray-----	30	54	
Gravel, fine-----	7	61	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/3- 8A2

Type of record: Driller's log. Altitude: 774 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Fill-----	4	4	
Soil-----	2	6	
Muck-----	4	10	
Clay-----	20	30	
Gravel-----	3	33	
Clay, sandy-----	9	42	
Sand, coarse, and gravel-----	38	80	
Sand, coarse, yellow-----	5	85	
Sand, coarse, and gravel-----	13	98	
Clay-----	2	100	

Well 30/3- 8E1

Type of record: Driller's log. Altitude: 780 feet.

Quaternary System:			
<b>Recent and Pleistocene Series:</b>			
Clay, hard, blue, with stones-----			
Clay, soft, blue-----	18	18	
Sand-----	18	36	
Gravel-----	9	45	
Gravel-----	4	49	

Well 30/3- 8J1

Type of record: Driller's log. Altitude: 783 feet.

Quaternary System:			
<b>Recent and Pleistocene Series:</b>			
Sand, loose-----			
Sand, loose-----	18	18	
Hardpan; clay and stone-----	12	30	
Gravel, coarse-----	10	40	

Well 30/3- 8J2

Type of record: Driller's log. Altitude: 783 feet.

Quaternary System:			
<b>Recent and Pleistocene Series:</b>			
Top soil, sandy-----			
Top soil, sandy-----	5	5	
Gravel and stones-----	13	18	
Sand, fine, gray-----	7	25	
Hardpan-----	8	33	
Sand, coarse, gray-----	5	38	
Gravel, gray-blue-----	5	43	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

## Well 30/3- 9J2

Type of record:	Driller's log.	Altitude: 787 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Soil and sand-----	37	37	
Gravel-----	3	40	
Sand, fine-----	3	43	

## Well 30/3- 9K3

Type of record:	Driller's log.	Altitude: 785 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand, loose-----	10	10	
Silt sand, fine-----	15	25	
Sand-----	5	30	
Sand, gray-----	32	62	
Sand, coarse-----	5	67	

## Well 30/3- 9K5

Type of record:	Driller's log.	Altitude: 786 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand-----	54	54	
Sand, gray-----	4	58	
Clay, blue-----	2	60	
Sand, fine-----	3	63	
Gravel, medium, with some silt---	4	67	

## Well 30/3- 9Q3

Type of record:	Driller's log.	Altitude: 783 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Soil and yellow sand-----	6	6	
Sand, gray-----	20	26	
Sand-----	3	29	
Sand, packed, gray-----	26	55	
Gravel-----	6	61	

## Well 30/3-10F1

Type of record:	Driller's log.	Altitude: 792 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Soil, sandy, loose-----	10	10	
Sand, gray-----	15	25	
Gravel, pea-sized-----	5	30	
Sand, fine-----	50	80	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/3-10F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel, coarse-----	3	83	
Record missing-----	20	103	

Well 30/3-10F2

Type of record:	Driller's log.	Altitude:	785 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	8	8	
Sand, gray-----	20	28	
Sand, coarse-----	6	34	
Gravel-----	5	39	
Silt sand, gray-----	35	74	
Sand, coarse-----	3	77	

Well 30/3-10J1

Type of record:	Driller's log.	Altitude:	787 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Top soil, sandy-----	11	11	
Hardpan; clay-----	18	29	
Sand, fine, gray-----	8	37	
Gravel, coarse, blue-----	3	40	

Well 30/3-10J2

Type of record:	Driller's log.	Altitude:	790 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Sand, red-----	10	10	
Sand, gray-----	8	18	
Sand-----	12	30	
Gravel-----	9	39	

Well 30/3-10K4

Type of record:	Driller's log.	Altitude:	790 feet.
Quaternary System:			
Recent and Pleistocene Series:			
Sand, red-----	27	27	
Sand-----	13	40	
Clay, blue-----	29	69	
Gravel-----	3	72	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

## Well 30/3-10L2

Type of record:	Driller's log.	Altitude:	787 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, blue-----	20	20	
Clay and sand; mixed-----	25	45	
Sand, medium to coarse-----	2	47	
Sand, fine, gray-----	12	59	
Gravel, very coarse-----	3	62	

## Well 30/3-10M4

Type of record:	Driller's log.	Altitude:	780 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand, gray, and gravel-----	54	54	
Sand, fine, gray-----	4	58	
Sand, medium to coarse-----	3	61	

## Well 30/3-10M8

Type of record:	Driller's log.	Altitude:	783 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Top soil and sand; yellow-----	5	5	
Sand, fine, white-----	14	19	
Sand, gray-----	20	39	
Gravel, coarse, blue-----	4	43	

## Well 30/3-15A1

Type of record:	Driller's log.	Altitude:	790 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Top soil and gray fine sand-----	41	41	
Clay, blue-----	6	47	
Sand, fine to coarse, gray, becoming darker with depth-----	34	81	

## Well 30/3-15E3

Type of record:	Driller's log.	Altitude:	780 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Top soil, sand, and gravel-----	36	36	
Clay, blue-----	6	42	
Silt sand, fine-----	7	49	
Gravel, coarse-----	7	56	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

## Well 30/3-15E4

Type of record:	Driller's log.	Altitude:	780 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay and sand-----	36	36	
Sand-----	2	38	
Sand, fine-----	13	51	
Record missing-----	3	54	
Gravel, very coarse-----	4	58	

## Well 30/3-15E5

Type of record:	Driller's log.	Altitude:	780 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Clay, brown-----	12	12	
Gravel, brown-----	22	34	
Clay, blue-----	12	46	
Sand-----	8	54	
Gravel, medium, blue-----	4	58	

## Well 30/3-15F3

Type of record:	Driller's log.	Altitude:	783 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand, yellow-----	10	10	
Silt sand-----	18	28	
Sand, coarse-----	4	32	
Clay, blue-----	13	45	
Silt sand, gray-----	23	68	
Gravel, medium to coarse-----	6	74	

## Well 30/3-15F5

Type of record:	Driller's log.	Altitude:	784 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Top soil and sand; loose-----	18	18	
Sand, fine-----	3	21	
Silt sand, gray-----	7	28	
Clay, blue-----	21	49	
Silt sand, fine, gray-----	17	66	
Gravel, medium-----	4	70	

## Well 30/3-16A1

Type of record:	Driller's log.	Altitude:	778 feet.
Material	Thickness (feet)	Depth (feet)	Remarks
<b>Quaternary System:</b>			
Recent and Pleistocene Series:			
Sand and gravel; dirty-----	25	25	
Sand, medium, and gravel; clean--	13	38	